

Edik Rafailov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

266
papers

3,654
citations

30
h-index

48
g-index

374
ext. papers

4,756
ext. citations

3.1
avg, IF

5.22
L-index

#	Paper	IF	Citations
266	Propagation of surface plasmon polaritons at the interface of metal-free metamaterial with anisotropic semiconductor inclusions. <i>Optik</i> , 2022 , 254, 168678	2.5	0
265	Two-photon conversion of a bacterial phytochrome. <i>Biophysical Journal</i> , 2021 , 120, 964-974	2.9	3
264	Looking Into Surface Plasmon Polaritons Guided by the Acoustic Metamaterials. <i>Plasmonics</i> , 2021 , 16, 1835-1839	2.4	0
263	Absorption Enhancement in Hyperbolic Metamaterials by Means of Magnetic Plasma. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4720	2.6	0
262	The Study of the Surface Plasmon Polaritons at the Interface Separating Nanocomposite and Hypercrystal. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5255	2.6	1
261	Controlling Surface Plasmon Polaritons Propagating at the Boundary of Low-Dimensional Acoustic Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6302	2.6	2
260	Photomodulation of lymphatic delivery of liposomes to the brain bypassing the blood-brain barrier: new perspectives for glioma therapy. <i>Nanophotonics</i> , 2021 , 10, 3215-3227	6.3	5
259	Dynamic Device Characteristics and Linewidth Measurement of InGaN/GaN Laser Diodes. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-10	1.8	2
258	Singlet oxygen stimulates mitochondrial bioenergetics in brain cells. <i>Free Radical Biology and Medicine</i> , 2021 , 163, 306-313	7.8	6
257	High laser induced damage threshold photoresists for nano-imprint and 3D multi-photon lithography. <i>Nanophotonics</i> , 2021 ,	6.3	5
256	Operation of quantum dot based terahertz photoconductive antennas under extreme pumping conditions. <i>Applied Physics Letters</i> , 2021 , 119, 111102	3.4	0
255	The Discrete Analysis of the Tissue Biopsy Images With Metamaterial Formalization: Identifying Tumor Locus. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-8	3.8	0
254	Wearable Laser Doppler Flowmetry Sensor: A Feasibility Study with Smoker and Non-Smoker Volunteers. <i>Biosensors</i> , 2020 , 10,	5.9	2
253	Machine Learning Aided Photonic Diagnostic System for Minimally Invasive Optically Guided Surgery in the Hepatoduodenal Area. <i>Diagnostics</i> , 2020 , 10,	3.8	1
252	Advanced multimodal laser imaging tool for urothelial carcinoma diagnosis (AMPLITUDE). <i>JPhys Photonics</i> , 2020 , 2, 021001	2.5	0
251	Quantum dot photoconductive antenna-based compact setups for terahertz spectroscopy and imaging 2020 ,		2
250	Photobiomodulation of lymphatic drainage and clearance: perspective strategy for augmentation of meningeal lymphatic functions. <i>Biomedical Optics Express</i> , 2020 , 11, 725-734	3.5	13

249	Close relationship between Bessel-Gaussian and conical refraction beams. <i>Optics Express</i> , 2020 , 28, 33909-33910	3.3	3
248	Conical refraction mode of an optical resonator. <i>Optics Letters</i> , 2020 , 45, 1317-1320	3	1
247	Pulse dynamics in SESAM-free electrically pumped VECSEL. <i>Optics Express</i> , 2020 , 28, 13466-13481	3.3	1
246	Metamaterial formalism approach for advancing the recognition of glioma areas in brain tissue biopsies. <i>Optical Materials Express</i> , 2020 , 10, 1607	2.6	1
245	Monitoring oxidative metabolism while modeling pancreatic ischemia in mice using a multimodal spectroscopy technique. <i>Laser Physics Letters</i> , 2020 , 17, 115605	1.5	3
244	Surface plasmon polariton waves propagation at the boundary of graphene based metamaterial and corrugated metal in THz range. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	15
243	Photostimulation of cerebral and peripheral lymphatic functions. <i>Translational Biophotonics</i> , 2020 , 2, e201900036	2.2	6
242	Light-Emitting Diodes 2020 , 253-299		1
241	Enhancement of the Purcell Effect by the Wire Metamaterials Formed by the Hexagonal Unit Cells. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5687	2.6	
240	Development of two-photon polymerised scaffolds for optical interrogation and neurite guidance of human iPSC-derived cortical neuronal networks. <i>Lab on A Chip</i> , 2020 , 20, 1792-1806	7.2	8
239	Pump dependent carrier lifetimes in InAs/GaAs quantum dot photoconductive terahertz antenna structures. <i>Journal of Applied Physics</i> , 2019 , 125, 151606	2.5	6
238	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-10	3.8	11
237	Multimodal Optical Diagnostics of the Microhaemodynamics in Upper and Lower Limbs. <i>Frontiers in Physiology</i> , 2019 , 10, 416	4.6	6
236	Effects of high and low level 1265 nm laser irradiation on HCT116 cancer cells 2019 ,		4
235	Wearable sensor system for multipoint measurements of blood perfusion: pilot studies in patients with diabetes mellitus 2019 ,		3
234	GaN-based distributed feedback laser diodes for optical communications 2019 ,		2
233	Anti-inflammatory and cell proliferative effect of the 1270 nm laser irradiation on the BALB/c nude mouse model involves activation of the cell antioxidant system. <i>Biomedical Optics Express</i> , 2019 , 10, 4261-4275	3.5	5
232	Conical refraction output from a Nd:YVO laser with an intracavity conerefringent element. <i>Optics Letters</i> , 2019 , 44, 642-645	3	4

231	Recent progress in distributed feedback InGaN/GaN laser diodes 2019 ,		1
230	Conical refraction with low-coherence light sources. <i>Optics Express</i> , 2019 , 27, 25428-25435	3.3	1
229	Enhancing the properties of plasmonic nanowires. <i>Materials Research Express</i> , 2019 , 6, 065014	1.7	2
228	The light-oxygen effect in biological cells enhanced by highly localized surface plasmon-polaritons. <i>Scientific Reports</i> , 2019 , 9, 18435	4.9	6
227	Boosting Terahertz Photoconductive Antenna Performance with Optimised Plasmonic Nanostructures. <i>Scientific Reports</i> , 2018 , 8, 6624	4.9	46
226	Photoelectric Properties of InAs/GaAs Quantum Dot Photoconductive Antenna Wafers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-5	3.8	7
225	Tunable Plasmonic Properties and Absorption Enhancement in Terahertz Photoconductive Antenna Based on Optimized Plasmonic Nanostructures. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 1028-1038	2.2	17
224	Femtosecond Alexandrite laser passively mode-locked by an InP/InGaP quantum-dot saturable absorber. <i>Optics Letters</i> , 2018 , 43, 232-234	3	14
223	Temperature effects on optical properties and efficiency of red AlGaInP-based light emitting diodes under high current pulse pumping. <i>Journal of Applied Physics</i> , 2018 , 124, 013103	2.5	7
222	Verification of NADH content measurements by portable optical diagnostic system in living brain tissue 2018 ,		1
221	Fibre-optic probe for fluorescence diagnostics with blood influence compensation 2018 ,		2
220	Second Harmonic Generation with a Fractional Order of Periodical Poling 2018 ,		1
219	Printing brain in vitro at 3D scaffolds: materials and patterns 2018 ,		3
218	3D laser nano-printing on fibre paves the way for super-focusing of multimode laser radiation. <i>Scientific Reports</i> , 2018 , 8, 14618	4.9	10
217	Continuous-wave operation of (Al,In)GaN distributed-feedback laser diodes with high-order notched gratings. <i>Applied Physics Express</i> , 2018 , 11, 112701	2.4	19
216	Wavelength-Tunable, GaSb-Based, Cascaded Type-I Quantum-Well Laser Emitting Over a Range of 300 nm. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1941-1943	2.2	3
215	Di-Chromatic InGaN Based Color Tuneable Monolithic LED with High Color Rendering Index. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1158	2.6	2
214	Novel wearable VCSEL-based blood perfusion sensor 2018 ,		5

213	Enhancement of terahertz photoconductive antenna operation by optical nanoantennas (Laser Photonics Rev. 11(1)/2017). <i>Laser and Photonics Reviews</i> , 2017 , 11, 1770001	8.3	13
212	Laser Doppler flowmetry in blood and lymph monitoring, technical aspects and analysis 2017 ,		5
211	Enhancement of terahertz photoconductive antenna operation by optical nanoantennas. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600199	8.3	73
210	Stealth dicing of sapphire wafers with near infra-red femtosecond pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	8
209	Laser-induced generation of singlet oxygen and its role in the cerebrovascular physiology. <i>Progress in Quantum Electronics</i> , 2017 , 55, 112-128	9.1	14
208	Diode-pumped ultrafast Yb:KGW laser with 56 fs pulses and multi-100 kW peak power based on SESAM and Kerr-lens mode locking. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	39
207	Conical refraction of a high-M2 laser beam 2017 ,		1
206	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-5	3.8	17
205	Non-invasive biomedical research and diagnostics enabled by innovative compact lasers. <i>Progress in Quantum Electronics</i> , 2017 , 56, 1-14	9.1	11
204	Peaking of Optical Pulses in Vertical-Cavity Surface-Emitting Lasers with an Active Region Based on Submonolayer InGaAs Quantum Dots. <i>Technical Physics Letters</i> , 2017 , 43, 1099-1101	0.7	1
203	Optimization of Nanoantenna-Enhanced Terahertz Emission from Photoconductive Antennas. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 062060	0.3	1
202	InGaN/GaN Laser Diodes With High Order Notched Gratings. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 2020-2022	2.2	7
201	Investigation of the Chromatic Dispersion in Two-Section InAs/GaAs Quantum-Dot Lasers. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 2246-2249	2.2	4
200	Bifurcation in Blood Oscillatory Rhythms for Patients with Ischemic Stroke: A Small Scale Clinical Trial using Laser Doppler Flowmetry and Computational Modeling of Vasomotion. <i>Frontiers in Physiology</i> , 2017 , 8, 160	4.6	12
199	Photodynamic opening of blood-brain barrier. <i>Biomedical Optics Express</i> , 2017 , 8, 5040-5048	3.5	32
198	Efficiency of True-Green Light Emitting Diodes: Non-Uniformity and Temperature Effects. <i>Materials</i> , 2017 , 10,	3.5	12
197	Multimodal optical measurement for study of lower limb tissue viability in patients with diabetes mellitus. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-10	3.5	25
196	Mode-locked semiconductor disk lasers. <i>Advances in Optics and Photonics</i> , 2016 , 8, 370	16.7	39

195	Superior color rendering with a phosphor-converted blue-cyan monolithic light-emitting diode. <i>Laser and Photonics Reviews</i> , 2016 , 10, 1031-1038	8.3	8
194	Slow passage through thresholds in quantum dot lasers. <i>Physical Review E</i> , 2016 , 94, 052208	2.4	1
193	AlGaInP red-emitting light emitting diode under extremely high pulsed pumping 2016 ,		5
192	Computational model of bladder tissue based on its measured optical properties. <i>Journal of Biomedical Optics</i> , 2016 , 21, 25006	3.5	16
191	The blood perfusion and NADH/FAD content combined analysis in patients with diabetes foot 2016 ,		5
190	Quantum-dot based ultrafast photoconductive antennae for efficient THz radiation 2016 ,		4
189	Tunable single- and dual-wavelength SHG from diode-pumped PPKTP waveguides. <i>Optics Letters</i> , 2016 , 41, 5098-5101	3	4
188	White Light Generation in a Diode-Pumped PPKTP Waveguide 2016 ,		1
187	A novel type of quasi-phaseshifting for the second harmonic generation. <i>Journal of Physics: Conference Series</i> , 2016 , 769, 012050	0.3	2
186	Self-mode-locked vertical-external-cavity surface-emitting laser 2016 ,		2
185	Dark soliton generation from semiconductor optical amplifier gain medium in ring fiber configuration 2016 ,		1
184	Quantum dot materials for terahertz generation applications. <i>Laser and Photonics Reviews</i> , 2016 , 10, 772-779	8.3	28
183	Quantum-dot saturable absorber and Kerr-lens mode-locked Yb:KGW laser with >450 kW of peak power. <i>Optics Letters</i> , 2016 , 41, 3771-4	3	35
182	Individual variability analysis of fluorescence parameters measured in skin with different levels of nutritive blood flow. <i>Medical Engineering and Physics</i> , 2015 , 37, 574-83	2.4	33
181	Recent advances in the field of vertical-external-cavity surface-emitting lasers 2015 ,		1
180	High-Power Operation of Quantum-Dot Semiconductor Disk Laser at 1180 nm. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1128-1131	2.2	9
179	Detection of urinary bladder cancer cells using redox ratio and double excitation wavelengths autofluorescence. <i>Biomedical Optics Express</i> , 2015 , 6, 977-86	3.5	23
178	Picosecond pulse amplification up to a peak power of 42 W by a quantum-dot tapered optical amplifier and a mode-locked laser emitting at 1.26 μm . <i>Optics Letters</i> , 2015 , 40, 395-8	3	14

177	Towards novel compact laser sources for non-invasive diagnostics and treatment 2015 ,		1
176	517nm - 538nm tunable second harmonic generation in a diode-pumped PPKTP waveguide crystal 2015 ,		1
175	574-647 nm wavelength tuning by second-harmonic generation from diode-pumped PPKTP waveguides. <i>Optics Letters</i> , 2015 , 40, 835-8	3	13
174	Dropout dynamics in pulsed quantum dot lasers due to mode jumping. <i>Applied Physics Letters</i> , 2015 , 106, 261103	3-4	4
173	Optical trapping with superfocused high-M2 laser diode beam 2015 ,		1
172	In vivo noninvasive measurement of skin autofluorescence biomarkers relate to cardiovascular disease in mice. <i>Journal of Microscopy</i> , 2014 , 255, 42-8	1.9	12
171	Novel evaluation procedure for internal and extraction efficiency of high-power blue LEDs 2014 ,		1
170	High-Power Quantum-Dot Vertical-External-Cavity Surface-Emitting Laser Exceeding 8 W. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1561-1564	2.2	16
169	Temperature-Dependent Internal Quantum Efficiency of Blue High-Brightness Light-Emitting Diodes. <i>IEEE Journal of Quantum Electronics</i> , 2014 , 50, 911-920	2	76
168	Ultra-Short-Pulse QD Edge-Emitting Lasers 2014 , 43-94		1
167	Manipulation of microparticles using Bessel beams from semiconductor lasers. <i>Technical Physics Letters</i> , 2014 , 40, 475-478	0.7	5
166	Bessel beams from semiconductor light sources. <i>Progress in Quantum Electronics</i> , 2014 , 38, 157-188	9.1	13
165	Quantum Dot Semiconductor Disk Lasers 2014 , 95-120		
164	QD Ultrafast and Continuous Wavelength Laser Diodes for Applications in Biology and Medicine 2014 , 171-230		
163	Semiconductor Quantum-Dot Saturable Absorber Mirrors for Mode-Locking Solid-State Lasers 2014 , 121-170		
162	Conclusion and Future Perspectives 2014 , 231-232		
161	Quantum Dot Technologies 2014 , 7-42		0
160	Optical trapping with Bessel beams generated from semiconductor lasers. <i>Journal of Physics: Conference Series</i> , 2014 , 572, 012039	0.3	10

159	Novel measure for the calibration of laser Doppler flowmetry devices 2014 ,		5
158	216 MHz repetition rate passively mode-locked electrically-pumped VECSEL 2014 ,		1
157	Study of a novel type of the optical modes in VCSELs. <i>Journal of Physics: Conference Series</i> , 2014 , 572, 012044	0.3	
156	Superfocusing of high-M2 semiconductor laser beams: experimental demonstration 2014 ,		1
155	Self-mode-locked quantum-dot vertical-external-cavity surface-emitting laser. <i>Optics Letters</i> , 2014 , 39, 4623-6	3	24
154	Efficient yellow-green light generation at 561 nm by frequency-doubling of a QD-FBG laser diode in a PPLN waveguide. <i>Optics Letters</i> , 2014 , 39, 6672-4	3	13
153	Laser beams with conical refraction patterns 2014 ,		12
152	Internal quantum efficiency and tunable colour temperature in monolithic white InGaN/GaN LED 2014 ,		3
151	Characterizing conical refraction optical tweezers. <i>Optics Letters</i> , 2014 , 39, 6691-4	3	8
150	Investigating tissue respiration and skin microhaemocirculation under adaptive changes and the synchronization of blood flow and oxygen saturation rhythms. <i>Physiological Measurement</i> , 2014 , 35, 607-29	2.9	28
149	The effect of slow passage in the pulse-pumped quantum dot laser 2014 ,		1
148	Broadly tunable quantum-dot based ultra-short pulse laser system with different diffraction grating orders. <i>Electronics Letters</i> , 2013 , 49, 364-366	1.1	0
147	Gigahertz repetition rate mode-locked Yb:KYW laser using self-assembled quantum dot saturable absorber. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 327-333	1.9	3
146	Influence of the axicon characteristics and beam propagation parameter M2 on the formation of Bessel beams from semiconductor lasers. <i>Quantum Electronics</i> , 2013 , 43, 423-427	1.8	18
145	Infrared laser pulse triggers increased singlet oxygen production in tumour cells. <i>Scientific Reports</i> , 2013 , 3, 3484	4.9	36
144	Quantum dot materials for ultrafast optoelectronics 2013 ,		1
143	Technologic developments in the field of photonics for the detection of urinary bladder cancer. <i>Clinical Genitourinary Cancer</i> , 2013 , 11, 390-6	3.3	14
142	InAs/AlSb widely tunable external cavity quantum cascade laser around 3.2 μm . <i>Applied Physics Letters</i> , 2013 , 102, 011124	3.4	23

141	Giant resonant light forces in microspherical photonics. <i>Light: Science and Applications</i> , 2013 , 2, e64-e64	16.7	51
140	Broadband absorption bleaching in chirped InGaAs quantum dot semiconductor optical amplifier operating at 1211–285nm. <i>Optical Materials</i> , 2013 , 35, 2171-2174	3.3	
139	Reply to comment on SESAM-free mode-locked semiconductor disk laser. <i>Laser and Photonics Reviews</i> , 2013 , 7, 555-556	8.3	14
138	Modelling the hypersensitivity of cancer cells to infra-red laser pulse: breaking ROS defence machinery 2013 ,		3
137	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1100907-1100907	3.8	4
136	Orange-to-red tunable picosecond pulses by frequency doubling in a diode-pumped PPKTP waveguide. <i>Optics Letters</i> , 2013 , 38, 2835-7	3	15
135	Conical Refraction: new observations and a dual cone model. <i>Optics Express</i> , 2013 , 21, 11125-31	3.3	25
134	Second harmonic generation in a low-loss orientation-patterned GaAs waveguide. <i>Optics Express</i> , 2013 , 21, 16424-30	3.3	8
133	85.7 MHz repetition rate mode-locked semiconductor disk laser: fundamental and soliton bound states. <i>Optics Express</i> , 2013 , 21, 25526-31	3.3	24
132	Generating a three-dimensional dark focus from a single conically refracted light beam. <i>Optics Letters</i> , 2013 , 38, 4648-51	3	20
131	Substantiation of medical and technical requirements for noninvasive spectrophotometric diagnostic devices. <i>Journal of Biomedical Optics</i> , 2013 , 18, 107009	3.5	18
130	Laser reflectance oximetry and Doppler flowmetry in assessment of complex physiological parameters of cutaneous blood microcirculation 2013 ,		3
129	A diode-pumped 1.5 fs waveguide laser mode-locked at 6.8 GHz by a quantum dot SESAM. <i>Laser Physics Letters</i> , 2013 , 10, 105803	1.5	11
128	THz emission from quantum dot-based THz antennas pumped by a tunable quantum-dot laser diode 2013 ,		1
127	High peak power and sub-picosecond Fourier-limited pulse generation from passively mode-locked monolithic two-section gain-guided tapered InGaAs quantum-dot lasers. <i>Laser Physics</i> , 2012 , 22, 715-724	1.2	11
126	Superfocusing of multimode semiconductor lasers and light-emitting diodes. <i>Technical Physics Letters</i> , 2012 , 38, 402-404	0.7	10
125	Flip Chip Quantum-Dot Semiconductor Disk Laser at 1200 nm. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1292-1294	2.2	10
124	Tunable Master-Oscillator Power-Amplifier Based on Chirped Quantum-Dot Structures. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1841-1844	2.2	7

123	P-i-n junction quantum dot saturable absorber mirror: electrical control of ultrafast dynamics. <i>Optics Express</i> , 2012 , 20, 9038-45	3-3	7
122	SESAM-free mode-locked semiconductor disk laser. <i>Laser and Photonics Reviews</i> , 2012 , 6, L20-L23	8-3	48
121	Progress in Compact Room Temperature THz Radiation Sources. <i>Recent Patents on Signal Processing</i> , 2012 , 2, 12-22		2
120	High peak-power picosecond pulse generation at 1.26 μm using a quantum-dot-based external-cavity mode-locked laser and tapered optical amplifier. <i>Optics Express</i> , 2012 , 20, 14308-20	3-3	22
119	Broad wavelength tunability from external cavity quantum-dot mode-locked laser. <i>Applied Physics Letters</i> , 2012 , 101, 121107	3-4	11
118	Resonant optical propelling of microspheres: A path to selection of almost identical photonic atoms 2012 ,		3
117	Continuous wave terahertz radiation from an InAs/GaAs quantum-dot photomixer device. <i>Applied Physics Letters</i> , 2012 , 101, 081114	3-4	15
116	Advances in Mode-Locked Semiconductor Lasers. <i>Semiconductors and Semimetals</i> , 2012 , 93-147	0.6	3
115	Green-to-red tunable SHG of a quantum-dot laser in a PPKTP waveguide. <i>Laser Physics Letters</i> , 2012 , 9, 790-795	1.5	14
114	Flexible particle manipulation techniques with conical refraction-based optical tweezers 2012 ,		4
113	Non-diffracting beams from surface-emitting lasers 2012 ,		3
112	Evanescent light coupling and optical propelling of microspheres in water immersed fiber couplers 2012 ,		4
111	High-power quantum dot semiconductor disk lasers 2012 ,		1
110	Multimodal spectral control of a quantum-dot diode laser for THz difference frequency generation. <i>Applied Physics Letters</i> , 2011 , 99, 171107	3-4	5
109	Fiber coupling to BaTiO ₃ glass microspheres in an aqueous environment. <i>Optics Letters</i> , 2011 , 36, 2862-4		32
108	Resonant coupling to microspheres and light pressure effects in microfluidic fiber-integrated platforms 2011 ,		1
107	Saturable Absorbers Based on QD-Doped Glasses 2011 , 207-216		
106	Foundations of Quantum Dot Theory 2011 , 11-54		

105 Emerging Applications of Ultrafast Quantum Dot Lasers **2011**, 217-221

104 **2011**, 38

103 Ultrashort Pulse Solid State Lasers Based on Quantum Dot Saturable Absorbers **2011**, 183-205

102 Semiconductor Quantum Dots for Ultrafast Optoelectronics **2011**, 1-10

101 Monolithic Quantum Dot Mode-Locked Lasers **2011**, 99-182

100 High-power spectral bistability in a multi-section quantum-dot laser under continuous-wave or mode-locked operation **2011**, 1

99 High power Bessel beams from EP-VECSELs **2011**, 5

98 Quantum Dots in Amplifiers of Ultrashort Pulses **2011**, 55-76

97 Broadly tunable 1250 nm quantum dot-based semiconductor disk laser. *IET Optoelectronics*, **2011**, 5, 165-167 1.5 5

96 Quantum Dot Based Semiconductor Disk Lasers for 10.3 THz. *IEEE Journal of Selected Topics in Quantum Electronics*, **2011**, 17, 1763-1771 3.8 31

95 . *IEEE Journal of Selected Topics in Quantum Electronics*, **2011**, 17, 1302-1310 3.8 15

94 High-power passively mode-locked tapered InAs/GaAs quantum-dot lasers. *Applied Physics B: Lasers and Optics*, **2011**, 103, 609-613 1.9 15

93 Orange light generation from a PPKTP waveguide end pumped by a cw quantum-dot tunable laser diode. *Applied Physics B: Lasers and Optics*, **2011**, 103, 41-43 1.9 17

92 Second-harmonic conical refraction: observation of free and forced harmonic waves. *Applied Physics B: Lasers and Optics*, **2011**, 103, 9-12 1.9 6

91 Passively mode-locked monolithic two-section gain-guided tapered quantum-dot lasers: II. Record 15 Watt peak power generation **2011**, 2

90 High Repetition Rate Ti:Sapphire Laser Mode-Locked by InP Quantum-Dot Saturable Absorber. *IEEE Photonics Technology Letters*, **2011**, 23, 1603-1605 2.2 8

89 Broad Repetition-Rate Tunable Quantum-Dot External-Cavity Passively Mode-Locked Laser with Extremely Narrow Radio Frequency Linewidth. *Applied Physics Express*, **2011**, 4, 062703 2.4 17

88 Fermionic transformation rules for spatially filtered light beams in conical refraction **2011**, 1

87	Quantum Dot Saturable Absorbers 2011 , 77-97		
86	Basic principles of design and functioning of multifunctional laser diagnostic system for non-invasive medical spectrophotometry 2011 ,		3
85	Temperature dependence of electroabsorption dynamics in an InAs quantum-dot saturable absorber at 1.3 μm and its impact on mode-locked quantum-dot lasers. <i>Applied Physics Letters</i> , 2010 , 97, 121110	3-4	13
84	Quantum well saturable absorber mirror with electrical control of modulation depth. <i>Applied Physics Letters</i> , 2010 , 97, 051103	3-4	10
83	Quantum-dot external-cavity passively modelocked laser with high peak power and pulse energy. <i>Electronics Letters</i> , 2010 , 46, 1516	1-1	9
82	1.2- μm Semiconductor Disk Laser Frequency Doubled With Periodically Poled Lithium Tantalate Crystal. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 453-455	2-2	2
81	Broadly Tunable InGaAsP/InP Strained Multiquantum-Well External Cavity Diode Laser. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1205-1207	2-2	1
80	1270 nm quantum dot based semiconductor disk lasers 2010 ,		3
79	Conical refraction Nd:KGd(WO ₄) ₂ laser. <i>Optics Express</i> , 2010 , 18, 2753-9	3-3	65
78	Dual-wavelength mode-locked quantum-dot laser, via ground and excited state transitions: experimental and theoretical investigation. <i>Optics Express</i> , 2010 , 18, 12832-8	3-3	44
77	Broadly tunable high-power InAs/GaAs quantum-dot external cavity diode lasers. <i>Optics Express</i> , 2010 , 18, 19438-43	3-3	59
76	Optically pumped semiconductor quantum dot disk laser operating at 1180 nm. <i>Optics Letters</i> , 2010 , 35, 694-6	3	16
75	Terahertz electro-absorption effect enabling femtosecond all-optical switching in semiconductor quantum dots. <i>Applied Physics Letters</i> , 2010 , 97, 231108	3-4	37
74	Photoinduced absorption saturation dynamics of InGaAs quantum dot structure dedicated for wavelength 1070 nm 2010 ,		1
73	Study of non-diffracting light beams from broad-stripe edge-emitting semiconductor lasers. <i>Technical Physics Letters</i> , 2010 , 36, 9-12	0-7	13
72	Laser with simultaneous Gaussian and conical refraction outputs. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 619-622	1-9	18
71	Ultrashort-pulse lasers passively mode locked by quantum-dot-based saturable absorbers. <i>Progress in Quantum Electronics</i> , 2010 , 34, 1-45	9-1	35
70	Laser Assisted Microstructuring of Amorphous Silicon for Microelectronics 2010 ,		2

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