

Edik Rafailov

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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	Mode-locked quantum-dot lasers. <i>Nature Photonics</i> , 2007 , 1, 395-401	33.9	382
265	High-power 0.8 μm InGaAsP-GaAs SCH SQW lasers. <i>IEEE Journal of Quantum Electronics</i> , 1991 , 27, 1531-1536	120	
264	Ultrafast electroabsorption dynamics in an InAs quantum dot saturable absorber at 1.3 μm . <i>Applied Physics Letters</i> , 2006 , 89, 1711-111	3.4	93
263	High-power picosecond and femtosecond pulse generation from a two-section mode-locked quantum-dot laser. <i>Applied Physics Letters</i> , 2005 , 87, 081107	3.4	92
262	Fast quantum-dot saturable absorber for passive mode-locking of solid-State lasers. <i>IEEE Photonics Technology Letters</i> , 2004 , 16, 2439-2441	2.2	78
261	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
260	Enhancement of terahertz photoconductive antenna operation by optical nanoantennas. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600199	8.3	73
259	Conical refraction Nd:KGd(WO ₄) ₂ laser. <i>Optics Express</i> , 2010 , 18, 2753-9	3.3	65
258	Broadly tunable high-power InAs/GaAs quantum-dot external cavity diode lasers. <i>Optics Express</i> , 2010 , 18, 19438-43	3.3	59
257	Giant resonant light forces in microspherical photonics. <i>Light: Science and Applications</i> , 2013 , 2, e64-e64	16.7	51
256	SESAM-free mode-locked semiconductor disk laser. <i>Laser and Photonics Reviews</i> , 2012 , 6, L20-L23	8.3	48
255	Boosting Terahertz Photoconductive Antenna Performance with Optimised Plasmonic Nanostructures. <i>Scientific Reports</i> , 2018 , 8, 6624	4.9	46
254	Stable mode locking via ground- or excited-state transitions in a two-section quantum-dot laser. <i>Applied Physics Letters</i> , 2006 , 89, 081124	3.4	45
253	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
252	Amplification of femtosecond pulses over by 18 dB in a quantum-dot semiconductor optical amplifier. <i>IEEE Photonics Technology Letters</i> , 2003 , 15, 1023-1025	2.2	43
251	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
250	Mode-locked semiconductor disk lasers. <i>Advances in Optics and Photonics</i> , 2016 , 8, 370	16.7	39

249	Efficient frequency doubling of a vertical-extended-cavity surface-emitting laser diode by use of a periodically poled KTP crystal. <i>Optics Letters</i> , 2003 , 28, 2091-3	3	39
248	2011 ,		38
247	Terahertz electro-absorption effect enabling femtosecond all-optical switching in semiconductor quantum dots. <i>Applied Physics Letters</i> , 2010 , 97, 231108	3-4	37
246	Infrared laser pulse triggers increased singlet oxygen production in tumour cells. <i>Scientific Reports</i> , 2013 , 3, 3484	4-9	36
245	Ultrafast release and capture of carriers in InGaAs/GaAs quantum dots observed by time-resolved terahertz spectroscopy. <i>Applied Physics Letters</i> , 2009 , 94, 262104	3-4	36
244	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
243	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
242	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
241	Photodynamic opening of blood-brain barrier. <i>Biomedical Optics Express</i> , 2017 , 8, 5040-5048	3-5	32
240	Fiber coupling to BaTiO ₃ glass microspheres in an aqueous environment. <i>Optics Letters</i> , 2011 , 36, 2862-4		32
239	Quantum Dot Based Semiconductor Disk Lasers for 11.3 μ m. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1763-1771	3-8	31
238	High-power quantum-dot-based semiconductor disk laser. <i>Optics Letters</i> , 2009 , 34, 1672-4	3	31
237	Highly efficient blue-light generation from a compact, diode-pumped femtosecond laser by use of a periodically poled KTP waveguide crystal. <i>Optics Letters</i> , 2003 , 28, 1963-5	3	31
236	Low-loss quantum-dot-based saturable absorber for efficient femtosecond pulse generation. <i>Applied Physics Letters</i> , 2007 , 91, 231111	3-4	30
235	Diode-pumped passively mode-locked Er,Yb:YAl ₃ (BO ₃) ₄ laser at 1.5-1.6 microm. <i>Optics Letters</i> , 2008 , 33, 83-5	3	29
234	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
233	Semiconductor quantum-dot saturable absorber mode-locked fiber laser. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 157-159	2-2	28
232	Quantum dot materials for terahertz generation applications. <i>Laser and Photonics Reviews</i> , 2016 , 10, 772-779	8-3	28

231	Stable mode-locked operation up to 80 /spl deg/C from an InGaAs quantum-dot laser. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 1500-1502	2.2	27
230	Conical Refraction: new observations and a dual cone model. <i>Optics Express</i> , 2013 , 21, 11125-31	3.3	25
229	Highly efficient femtosecond Yb:KYW laser pumped by single narrow-stripe laser diode. <i>Electronics Letters</i> , 2003 , 39, 1108	1.1	25
228	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
227	Self-mode-locked quantum-dot vertical-external-cavity surface-emitting laser. <i>Optics Letters</i> , 2014 , 39, 4623-6	3	24
226	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
225	Quantum-dot-based saturable absorber for femtosecond mode-locked operation of a solid-state laser. <i>Optics Letters</i> , 2006 , 31, 1444-6	3	24
224	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
223	InAs/AlSb widely tunable external cavity quantum cascade laser around 3.2 μm . <i>Applied Physics Letters</i> , 2013 , 102, 011124	3.4	23
222	Quantum-dot-based saturable absorber with p-n junction for mode-locking of solid-state lasers. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 294-296	2.2	23
221	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
220	Compact laser-diode-based femtosecond sources. <i>New Journal of Physics</i> , 2004 , 6, 175-175	2.9	22
219	Subpicosecond quantum dot saturable absorber mode-locked semiconductor disk laser. <i>Applied Physics Letters</i> , 2009 , 94, 251105	3.4	21
218	Second-harmonic generation from a first-order quasi-phase-matched GaAs/AlGaAs waveguide crystal. <i>Optics Letters</i> , 2001 , 26, 1984-6	3	21
217	Generating a three-dimensional dark focus from a single conically refracted light beam. <i>Optics Letters</i> , 2013 , 38, 4648-51	3	20
216	Efficient frequency doubling of a pulsed laser diode by use of a periodically poled KTP waveguide crystal with Bragg gratings. <i>Optics Letters</i> , 2001 , 26, 1961-2	3	20
215	Investigation of transition dynamics in a quantum-dot laser optically pumped by femtosecond pulses. <i>Applied Physics Letters</i> , 2006 , 88, 041101	3.4	19
214	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

213	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
212	Substantiation of medical and technical requirements for noninvasive spectrophotometric diagnostic devices. <i>Journal of Biomedical Optics</i> , 2013 , 18, 107009	3.5	18
211	Laser with simultaneous Gaussian and conical refraction outputs. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 619-622	1.9	18
210	Electroabsorption and Electrorefraction in an InAs Quantum-Dot Waveguide Modulator. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1118-1120	2.2	18
209	Generation of propagation-invariant light beams from semiconductor light sources. <i>Technical Physics Letters</i> , 2008 , 34, 1075-1078	0.7	18
208	Temperature dependence of pulse duration in a mode-locked quantum-dot laser. <i>Applied Physics Letters</i> , 2007 , 90, 101102	3.4	18
207	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-5	3.8	17
206	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
205	Orange light generation from a PPKTP waveguide end pumped by a cw quantum-dot tunable laser diode. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 41-43	1.9	17
204	Broad Repetition-Rate Tunable Quantum-Dot External-Cavity Passively Mode-Locked Laser with Extremely Narrow Radio Frequency Linewidth. <i>Applied Physics Express</i> , 2011 , 4, 062703	2.4	17
203	Dynamics of a two-state quantum dot laser with saturable absorber. <i>Applied Physics Letters</i> , 2007 , 90, 121113	3.4	17
202	Computational model of bladder tissue based on its measured optical properties. <i>Journal of Biomedical Optics</i> , 2016 , 21, 25006	3.5	16
201	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
200	Optically pumped semiconductor quantum dot disk laser operating at 1180 nm. <i>Optics Letters</i> , 2010 , 35, 694-6	3	16
199	Efficient doubling of femtosecond pulses in aperiodically and periodically poled KTP crystals. <i>Optics Express</i> , 2007 , 15, 1155-60	3.3	16
198	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
197	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011 , 17, 1302-1310	3.8	15
196	High-power passively mode-locked tapered InAs/GaAs quantum-dot lasers. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 609-613	1.9	15

195	Continuous wave terahertz radiation from an InAs/GaAs quantum-dot photomixer device. <i>Applied Physics Letters</i> , 2012 , 101, 081114	3.4	15
194	3.6 mW blue light by direct frequency doubling of a diode laser using an aperiodically poled lithium niobate crystal. <i>Applied Physics Letters</i> , 2001 , 78, 3172-3174	3.4	15
193	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
192	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
191	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 μ m. <i>Optics Letters</i> , 2015 , 40, 395-8	3	14
190	Femtosecond Alexandrite laser passively mode-locked by an InP/InGaP quantum-dot saturable absorber. <i>Optics Letters</i> , 2018 , 43, 232-234	3	14
189	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
188	Reply to comment on SESAM-free mode-locked semiconductor disk laser. <i>Laser and Photonics Reviews</i> , 2013 , 7, 555-556	8.3	14
187	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
186	Two-Color Output From InGaAs Laser With Multiplexed Reflective Bragg Mirror. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1093-1095	2.2	14
185	Efficient femtosecond green-light source with a diode-pumped mode-locked Yb ³⁺ :KY(WO ₄) ₂ laser. <i>Optics Letters</i> , 2005 , 30, 1144-6	3	14
184	Portable ultrafast blue light sources designed with frequency doubling in KTP and KNbO ₃ . <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 1268-1276	3.8	14
183	Broadband tuning and dual-spectral/temporal outputs from a nonresonantly injection-seeded diode laser. <i>Applied Physics Letters</i> , 2002 , 80, 1862-1863	3.4	14
182	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
181	574-647 nm wavelength tuning by second-harmonic generation from diode-pumped PPKTP waveguides. <i>Optics Letters</i> , 2015 , 40, 835-8	3	13
180	Bessel beams from semiconductor light sources. <i>Progress in Quantum Electronics</i> , 2014 , 38, 157-188	9.1	13
179	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
178	Temperature dependence of electroabsorption dynamics in an InAs quantum-dot saturable absorber at 1.3 μ m and its impact on mode-locked quantum-dot lasers. <i>Applied Physics Letters</i> , 2010 , 97, 121110	3.4	13

177	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
176	Efficient generation of green and UV light in a single PP-KTP waveguide pumped by a compact all-fiber system. <i>Applied Physics Letters</i> , 2006 , 88, 121105	3.4	13
175	High-power buried InGaAsP/GaAs (≈ 0.8 μ m) laser diodes. <i>Applied Physics Letters</i> , 1993 , 62, 1062-1064	3.4	13
174	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
173	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
172	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
171	Efficiency of True-Green Light Emitting Diodes: Non-Uniformity and Temperature Effects. <i>Materials</i> , 2017 , 10,	3.5	12
170	Laser beams with conical refraction patterns 2014 ,		12
169	Self-sustained pulsation in the oxide-confined vertical-cavity surface-emitting lasers based on submonolayer InGaAs quantum dots. <i>Applied Physics Letters</i> , 2007 , 91, 121106	3.4	12
168	Near-transform-limited picosecond pulses from a gain-switched InGaAs diode laser with fiber Bragg gratings. <i>Applied Physics Letters</i> , 2001 , 79, 151-152	3.4	12
167	Non-invasive biomedical research and diagnostics enabled by innovative compact lasers. <i>Progress in Quantum Electronics</i> , 2017 , 56, 1-14	9.1	11
166	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-10	3.8	11
165	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
164	A diode-pumped 1.5 μ m waveguide laser mode-locked at 6.8 GHz by a quantum dot SESAM. <i>Laser Physics Letters</i> , 2013 , 10, 105803	1.5	11
163	Broad wavelength tunability from external cavity quantum-dot mode-locked laser. <i>Applied Physics Letters</i> , 2012 , 101, 121107	3.4	11
162	Electronically Controlled Pulse Duration Passively Mode-Locked Cr : Forsterite Laser. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1124-1126	2.2	11
161	Self-focused distributed Bragg reflector laser diodes. <i>Journal of Applied Physics</i> , 2004 , 95, 1502-1509	2.5	11
160	Optical trapping with Bessel beams generated from semiconductor lasers. <i>Journal of Physics: Conference Series</i> , 2014 , 572, 012039	0.3	10

159	Superfocusing of multimode semiconductor lasers and light-emitting diodes. <i>Technical Physics Letters</i> , 2012 , 38, 402-404	0.7	10
158	Flip Chip Quantum-Dot Semiconductor Disk Laser at 1200 nm. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1292-1294	2.2	10
157	Quantum well saturable absorber mirror with electrical control of modulation depth. <i>Applied Physics Letters</i> , 2010 , 97, 051103	3.4	10
156	Stable dual-wavelength operation of InGaAs diode lasers with volume Bragg gratings. <i>Applied Physics Letters</i> , 2007 , 91, 171113	3.4	10
155	Anomalous dynamic characteristics of semiconductor quantum-dot lasers generating on two quantum states. <i>Technical Physics Letters</i> , 2007 , 33, 4-7	0.7	10
154	High power all-quantum-dot-based external cavity modelocked laser. <i>Electronics Letters</i> , 2007 , 43, 812	1.1	10
153	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
152	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
151	Quantum-dot external-cavity passively modelocked laser with high peak power and pulse energy. <i>Electronics Letters</i> , 2010 , 46, 1516	1.1	9
150	Periodically switched nonlinear structures for frequency conversion: theory and experimental demonstration. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 1122-1130	2	9
149	Nonresonant self-injection seeding of a gain-switched diode laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001 , 7, 287-292	3.8	9
148	High average power short-pulse generation from singlemode InGaAs/GaAs laser diodes. <i>IEE Proceedings: Optoelectronics</i> , 1999 , 146, 51-54		9
147	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
146	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
145	Characterizing conical refraction optical tweezers. <i>Optics Letters</i> , 2014 , 39, 6691-4	3	8
144	Second harmonic generation in a low-loss orientation-patterned GaAs waveguide. <i>Optics Express</i> , 2013 , 21, 16424-30	3.3	8
143	High Repetition Rate Ti:Sapphire Laser Mode-Locked by InP Quantum-Dot Saturable Absorber. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1603-1605	2.2	8
142	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

141	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
140	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
139	InGaN/GaN Laser Diodes With High Order Notched Gratings. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 2020-2022	2.2	7
138	Tunable Master-Oscillator Power-Amplifier Based on Chirped Quantum-Dot Structures. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1841-1844	2.2	7
137	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
136	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
135	Multimodal Optical Diagnostics of the Microhaemodynamics in Upper and Lower Limbs. <i>Frontiers in Physiology</i> , 2019 , 10, 416	4.6	6
134	Second-harmonic conical refraction: observation of free and forced harmonic waves. <i>Applied Physics B: Lasers and Optics</i> , 2011 , 103, 9-12	1.9	6
133	Efficient THz radiation from a nanocrystalline silicon-based multi-layer photomixer. <i>Semiconductor Science and Technology</i> , 2009 , 24, 095025	1.8	6
132	Output radiation focusing in curved-grating distributed Bragg reflector laser. <i>Technical Physics Letters</i> , 2005 , 31, 824	0.7	6
131	Novel high-power laser structures incorporating curved gratings. <i>IEEE Journal of Quantum Electronics</i> , 2000 , 36, 1412-1420	2	6
130	High-power laser structures incorporating novel curved-gratings. <i>Optical and Quantum Electronics</i> , 1999 , 31, 215-221	2.4	6
129	Photostimulation of cerebral and peripheral lymphatic functions. <i>Translational Biophotonics</i> , 2020 , 2, e201900036	2.2	6
128	The light-oxygen effect in biological cells enhanced by highly localized surface plasmon-polaritons. <i>Scientific Reports</i> , 2019 , 9, 18435	4.9	6
127	Singlet oxygen stimulates mitochondrial bioenergetics in brain cells. <i>Free Radical Biology and Medicine</i> , 2021 , 163, 306-313	7.8	6
126	Laser Doppler flowmetry in blood and lymph monitoring, technical aspects and analysis 2017 ,		5
125	AlGaInP red-emitting light emitting diode under extremely high pulsed pumping 2016 ,		5
124	The blood perfusion and NADH/FAD content combined analysis in patients with diabetes foot 2016 ,		5

123	Manipulation of microparticles using Bessel beams from semiconductor lasers. <i>Technical Physics Letters</i> , 2014 , 40, 475-478	0.7	5
122	Novel measure for the calibration of laser Doppler flowmetry devices 2014 ,		5
121	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
120	High power Bessel beams from EP-VECSELs 2011 ,		5
119	Broadly tunable 1250 nm quantum dot-based semiconductor disk laser. <i>IET Optoelectronics</i> , 2011 , 5, 165-167	1.5	5
118	High-power (1 W, CW) single-lobe operation of LPE-grown GaInAsP/GaInP ($x = 0.8$ In) separate-confinement single-quantum-well broad-area lasers. <i>Electronics Letters</i> , 1989 , 25, 1239	1.1	5
117	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
116	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
115	Novel wearable VCSEL-based blood perfusion sensor 2018 ,		5
114	High laser induced damage threshold photoresists for nano-imprint and 3D multi-photon lithography. <i>Nanophotonics</i> , 2021 ,	6.3	5
113	Quantum-dot based ultrafast photoconductive antennae for efficient THz radiation 2016 ,		4
112	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
111	Dropout dynamics in pulsed quantum dot lasers due to mode jumping. <i>Applied Physics Letters</i> , 2015 , 106, 261103	3.4	4
110	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1100907-1100907	3.8	4
109	Flexible particle manipulation techniques with conical refraction-based optical tweezers 2012 ,		4
108	Evanescent light coupling and optical propelling of microspheres in water immersed fiber couplers 2012 ,		4
107	Effects of high and low level 1265 nm laser irradiation on HCT116 cancer cells 2019 ,		4
106	Tunable single- and dual-wavelength SHG from diode-pumped PPKTP waveguides. <i>Optics Letters</i> , 2016 , 41, 5098-5101	3	4

105	Conical refraction output from a Nd:YVO laser with an intracavity conerefringent element. <i>Optics Letters</i> , 2019 , 44, 642-645	3	4
104	Tunable polaritons of spiral nanowire metamaterials. <i>Waves in Random and Complex Media</i> , 1-9	1.9	4
103	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
102	Internal quantum efficiency and tunable colour temperature in monolithic white InGaN/GaN LED 2014 ,		3
101	Modelling the hypersensitivity of cancer cells to infra-red laser pulse: breaking ROS defence machinery 2013 ,		3
100	Laser reflectance oximetry and Doppler flowmetry in assessment of complex physiological parameters of cutaneous blood microcirculation 2013 ,		3
99	1270 nm quantum dot based semiconductor disk lasers 2010 ,		3
98	Basic principles of design and functioning of multifunctional laser diagnostic system for non-invasive medical spectrophotometry 2011 ,		3
97	Resonant optical propelling of microspheres: A path to selection of almost identical photonic atoms 2012 ,		3
96	Advances in Mode-Locked Semiconductor Lasers. <i>Semiconductors and Semimetals</i> , 2012 , 93-147	0.6	3
95	Non-diffracting beams from surface-emitting lasers 2012 ,		3
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