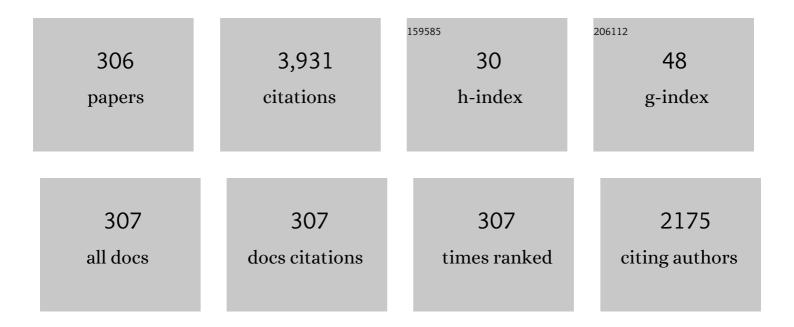
Andrey A Ionin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Physics and engineering of singlet delta oxygen production in low-temperature plasma. Journal Physics D: Applied Physics, 2007, 40, R25-R61.	2.8	256
2	Frequency down-conversion of multiline CO laser into the THz range with ZnGeP2 crystal. Optical and Quantum Electronics, 2020, 52, 1.	3.3	132
3	Thermal melting and ablation of silicon by femtosecond laser radiation. Journal of Experimental and Theoretical Physics, 2013, 116, 347-362.	0.9	97
4	Experimental study of fs-laser induced sub-100-nm periodic surface structures on titanium. Optics Express, 2015, 23, 5915.	3.4	95
5	Femtosecond laser writing of subwave one-dimensional quasiperiodic nanostructures on a titanium surface. JETP Letters, 2009, 90, 107-110.	1.4	80
6	Non-self-sustained electric discharge in oxygen gas mixtures: singlet delta oxygen production. Journal Physics D: Applied Physics, 2003, 36, 982-989.	2.8	77
7	Femtosecond laser color marking of metal and semiconductor surfaces. Applied Physics A: Materials Science and Processing, 2012, 107, 301-305.	2.3	74
8	GARPUN-MTW: A hybrid Ti:Sapphire/KrF laser facility for simultaneous amplification of subpicosecond/nanosecond pulses relevant to fast-ignition ICF concept. Laser and Particle Beams, 2007, 25, 435-451.	1.0	66
9	Ultrafast changes in the optical properties of a titanium surface and femtosecond laser writing of one-dimensional quasi-periodic nanogratings of its relief. Journal of Experimental and Theoretical Physics, 2011, 113, 14-26.	0.9	63
10	On-Fly Femtosecond-Laser Fabrication of Self-Organized Plasmonic Nanotextures for Chemo- and Biosensing Applications. ACS Applied Materials & amp; Interfaces, 2016, 8, 24946-24955.	8.0	58
11	Antibacterial coatings of Se and Si nanoparticles. Applied Surface Science, 2019, 469, 220-225.	6.1	58
12	Femtosecond Laser Treatment for the Design of Electro-insulating Superhydrophobic Coatings with Enhanced Wear Resistance on Glass. ACS Applied Materials & Interfaces, 2014, 6, 2080-2085.	8.0	56
13	Broadband carbon monoxide laser system operating in the wavelength range of 2.5 – 8.3 μm. Quantum Electronics, 2013, 43, 139-143.	1.0	50
14	Near-threshold femtosecond laser fabrication of one-dimensional subwavelength nanogratings on a graphite surface. Physical Review B, 2011, 83, .	3.2	48
15	Relaxation phenomena in electronic and lattice subsystems on iron surface during its ablation by ultrashort laser pulses. JETP Letters, 2014, 99, 51-55.	1.4	47
16	Nanoscale cavitation instability of the surface melt along the grooves of one-dimensional nanorelief gratings on an aluminum surface. JETP Letters, 2011, 94, 266-269.	1.4	46
17	Triggering and guiding electric discharge by a train of ultraviolet picosecond pulses combined with a long ultraviolet pulse. Applied Physics Letters, 2012, 100, 104105.	3.3	45
18	Direct femtosecond laser fabrication of antireflective layer on GaAs surface. Applied Physics B: Lasers and Optics, 2013, 111, 419-423.	2.2	42

#	Article	IF	CITATIONS
19	Nanosecond-Laser Generation of Nanoparticles in Liquids: From Ablation through Bubble Dynamics to Nanoparticle Yield. Materials, 2019, 12, 562.	2.9	42
20	Near-critical phase explosion promoting breakdown plasma ignition during laser ablation of graphite. Physical Review E, 2010, 82, 016404.	2.1	41
21	Multiple filamentation of intense femtosecond laser pulses in air. JETP Letters, 2009, 90, 423-427.	1.4	39
22	Through nanohole formation in thin metallic film by single nanosecond laser pulses using optical dielectric apertureless probe. Optics Letters, 2013, 38, 1452.	3.3	38
23	Large-Scale Laser Fabrication of Antifouling Silicon-Surface Nanosheet Arrays via Nanoplasmonic Ablative Self-Organization in Liquid CS ₂ Tracked by a Sulfur Dopant. ACS Applied Nano Materials, 2018, 1, 2461-2468.	5.0	36
24	Structural transformation and residual stresses in surface layers of αÂ+Âβ titanium alloys nanotextured by femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2015, 119, 241-247.	2.3	34
25	Nanoscale boiling during single-shot femtosecond laser ablation of thin gold films. JETP Letters, 2015, 101, 394-397.	1.4	33
26	Silicon as a virtual plasmonic material: Acquisition of its transient optical constants and the ultrafast surface plasmon-polariton excitation. Journal of Experimental and Theoretical Physics, 2015, 120, 946-959.	0.9	33
27	Nanoscale surface boiling in sub-threshold damage and above-threshold spallation of bulk aluminum and gold by single femtosecond laser pulses. Laser Physics Letters, 2016, 13, 025603.	1.4	33
28	Electron dynamics and prompt ablation of aluminum surface excited by intense femtosecond laser pulse. Applied Physics A: Materials Science and Processing, 2014, 117, 1757-1763.	2.3	32
29	Enhancement of ultrafast electron photoemission from metallic nanoantennas excited by a femtosecond laser pulse. Laser Physics Letters, 2014, 11, 065301.	1.4	32
30	Sub-100 nanometer transverse gratings written by femtosecond laser pulses on a titanium surface. Laser Physics Letters, 2013, 10, 056004.	1.4	31
31	Generation and detection of superstrong shock waves during ablation of an aluminum surface by intense femtosecond laser pulses. JETP Letters, 2011, 94, 34-38.	1.4	30
32	Filamentation of femtosecond laser pulses governed by variable wavefront distortions via a deformable mirror. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2257.	2.1	30
33	Formation of crownlike and related nanostructures on thin supported gold films irradiated by single diffraction-limited nanosecond laser pulses. Physical Review E, 2014, 90, 023017.	2.1	29
34	Frequency conversion of mode-locked and Q-switched CO laser radiation with efficiency up to 37%. Optics Letters, 2015, 40, 2997.	3.3	29
35	Milligram-per-second femtosecond laser production of Se nanoparticle inks and ink-jet printing of nanophotonic 2D-patterns. Applied Surface Science, 2018, 436, 662-669.	6.1	28
36	Deeply sub-wavelength laser nanopatterning of Si surface in dielectric fluids: Manipulation by surface plasmon resonance. Applied Surface Science, 2020, 519, 146204.	6.1	28

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37	Frequency-tunable optically pumped carbon monoxide laser. IEEE Journal of Quantum Electronics, 2000, 36, 1041-1052.	1.9	27
38	Nanoscale hydrodynamic instability in a molten thin gold film induced by femtosecond laser ablation. JETP Letters, 2014, 99, 518-522.	1.4	27
39	Filamentation of IR and UV femtosecond pulses upon focusing in air. Quantum Electronics, 2013, 43, 29-36.	1.0	26
40	Peculiarities of filamentation of sharply focused ultrashort laser pulses in air. Journal of Experimental and Theoretical Physics, 2010, 111, 724-730.	0.9	25
41	Surface nanostructuring of Ni/Cu foilsby femtosecond laser pulses. Quantum Electronics, 2011, 41, 387-392.	1.0	25
42	Mode-locked CO laser frequency doubling in ZnGeP2 with 25% efficiency. Laser Physics Letters, 2011, 8, 723-728.	1.4	25
43	Beam spatial profile effect on femtosecond laser surface structuring of titanium in scanning regime. Applied Surface Science, 2013, 284, 634-637.	6.1	25
44	Mechanisms of formation of sub- and micrometre-scale holes in thin metal films by single nano- and femtosecond laser pulses. Quantum Electronics, 2014, 44, 540-546.	1.0	25
45	Pulse-width-dependent surface ablation of copper and silver by ultrashort laser pulses. Laser Physics Letters, 2016, 13, 076101.	1.4	25
46	Efficient pulsed first-overtone CO laser operating within the spectral range of 2.5-4.2 /spl mu/m. IEEE Journal of Quantum Electronics, 2000, 36, 810-823.	1.9	24
47	Glow discharge in singlet oxygen. Plasma Physics Reports, 2003, 29, 211-219.	0.9	24
48	Ultrafast electron dynamics on the silicon surface excited by an intense femtosecond laser pulse. JETP Letters, 2012, 96, 375-379.	1.4	24
49	"Heterogeneous―versus "homogeneous―nucleation and growth of microcones on titanium surface under UV femtosecond-laser irradiation. Applied Physics A: Materials Science and Processing, 2014, 116, 1133-1139.	2.3	24
50	Femtosecond laser fabrication of sub-diffraction nanoripples on wet Al surface in multi-filamentation regime: High optical harmonics effects?. Applied Surface Science, 2014, 292, 678-681.	6.1	24
51	Carbon monoxide laser emitting nanosecond pulses with 10MHz repetition rate. Optics Communications, 2009, 282, 294-299.	2.1	23
52	Lasers on overtone transitions of carbon monoxide molecule. Laser Physics, 2010, 20, 144-186.	1.2	23
53	Fabrication of Superhydrophobic Coating on Stainless Steel Surface by Femtosecond Laser Texturing and Chemisorption of an Hydrophobic Agent. Journal of Russian Laser Research, 2015, 36, 81-85.	0.6	23
54	Femtosecond laser-induced stress-free ultra-densification inside porous glass. Laser Physics Letters, 2016, 13, 055901.	1.4	23

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55	Multiline laser probing of CO:He, CO:N2, and CO:O2 active media in a wide-aperture pulsed amplifier. Journal of Russian Laser Research, 2006, 27, 33-69.	0.6	22
56	Acoustic monitoring of microplasma formation and filamentation of tightly focused femtosecond laser pulses in silica glass. Applied Physics Letters, 2008, 92, .	3.3	22
57	Dynamic polarization flip in nanoripples on photoexcited Ti surface near its surface plasmon resonance. Optics Letters, 2015, 40, 4967.	3.3	22
58	Spectroscopic Detection of Sulfur Oxides in the Aircraft Wake. Journal of Russian Laser Research, 2005, 26, 402-426.	0.6	21
59	Bulk femtosecond laser marking of natural diamonds. Laser Physics, 2010, 20, 1778-1782.	1.2	21
60	Laser ablation of polished and nanostructured titanium surfaces by nanosecond laser pulses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 88, 15-19.	2.9	21
61	Nonlinear regime of the excitation of a surface electromagnetic wave on the silicon surface by an intense femtosecond laser pulse. JETP Letters, 2013, 97, 121-125.	1.4	21
62	Directed transfer of microwave radiation in sliding-mode plasma waveguides produced by ultraviolet laser in atmospheric air. Applied Optics, 2014, 53, I31.	2.1	21
63	Flash-imprinting of intense femtosecond surface plasmons for advanced nanoantenna fabrication. Optics Letters, 2015, 40, 1687.	3.3	21
64	Dynamics of the spallative ablation of a GaAs surface irradiated by femtosecond laser pulses. JETP Letters, 2012, 94, 753-758.	1.4	20
65	Production of extended plasma channels in atmospheric air by amplitude-modulated UV radiation of GARPUN-MTW Ti : sapphire—KrF laser. Part 2. Accumulation of plasma electrons and electric discharge control. Quantum Electronics, 2013, 43, 339-346.	1.0	20
66	Formation of nanobumps and nanoholes in thin metal films by strongly focused nanosecond laser pulses. Journal of Experimental and Theoretical Physics, 2014, 119, 15-23.	0.9	20
67	High-throughput laser generation of Si-nanoparticle based surface coatings for antibacterial applications. Applied Surface Science, 2019, 470, 825-831.	6.1	20
68	Pulsed laser operating on the first vibrational overtone of the CO molecule in the 2.5–4.2-μm range: 1. Multifrequency lasing. Quantum Electronics, 2000, 30, 771-777.	1.0	19
69	Formation of quasi-periodic nano- and microstructures on silicon surface under IR and UV femtosecond laser pulses. Quantum Electronics, 2011, 41, 829-834.	1.0	19
70	Single-shot front-side nanoscale femtosecond laser ablation of a thin silver film. Applied Physics A: Materials Science and Processing, 2014, 117, 981-985.	2.3	19
71	High-power supersonic CO laser on fundamental and overtone transitions. Quantum Electronics, 2005, 35, 1126-1130.	1.0	18
72	Optical and ultrasonic signatures of femtosecond pulse filamentation in fused silica. Journal of Applied Physics, 2009, 105, .	2.5	18

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73	Focusing of intense femtosecond surface plasmon-polaritons. JETP Letters, 2013, 97, 599-603.	1.4	18
74	Electron emission and ultrafast low-fluence plasma formation during single-shot femtosecond laser surface ablation of various materials. JETP Letters, 2015, 101, 308-312.	1.4	18
75	Nonlinear optical dynamics during femtosecond laser nanostructuring of a silicon surface. Laser Physics Letters, 2015, 12, 025902.	1.4	18
76	Extended plasma channels created by UV laser in air and their application to control electric discharges. Plasma Physics Reports, 2015, 41, 112-146.	0.9	18
77	RF discharge slab CO laser operating in both fundamental and first-overtone bands. Optics Communications, 2009, 282, 629-634.	2.1	17
78	Mode-locked and Q-switched carbon monoxide laser system. Optics Communications, 2015, 345, 163-167.	2.1	17
79	Sum-frequency generation of Q-switched CO laser radiation in BaGa2GeSe6 and GaSe nonlinear crystals. Optical and Quantum Electronics, 2018, 50, 1.	3.3	17
80	Pulsed laser operating on the first overtone of the CO molecule in the 2.5–4.2-μm range. II. Frequency-selective lasing. Quantum Electronics, 2000, 30, 859-866.	1.0	16
81	Topological evolution of self-induced silicon nanogratings during prolonged femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2011, 104, 701-705.	2.3	16
82	Enhanced relativistic laser–plasma coupling utilizing laser-induced micromodified target. Laser Physics Letters, 2015, 12, 046005.	1.4	16
83	A pulsed overtone CO laser with efficiency of 16%. Quantum Electronics, 2006, 36, 1153-1154.	1.0	15
84	In vitro femtosecond laser subsurface micro-disruption inside human cornea and pre-cleared sclera. Laser Physics Letters, 2010, 7, 463-466.	1.4	15
85	Electron-ion coupling and ambipolar diffusion in dense electron-hole plasma in thin amorphous Si films studied by single-shot, pulse-width dependent ultrafast laser ablation. Applied Surface Science, 2017, 425, 170-175.	6.1	15
86	Direct laser writing of barriers with controllable permeability in porous glass. Optics Express, 2018, 26, 28150.	3.4	15
87	Measurement of the O2(b1Σg+→ a1Δg) transition probability by the method of intracavity laser spectroscopy. Quantum Electronics, 2005, 35, 378-384.	1.0	14
88	Gain dynamics in a pulsed laser amplifier on CO–He, CO–N2and CO–O2gas mixtures. Quantum Electronics, 2007, 37, 111-117.	1.0	14
89	Self-limited ionization in bandgap renormalized GaAs at high femtosecond laser intensities. Optical Engineering, 2012, 51, 121808.	1.0	14
90	Femtosecond laser modification of titanium surfaces: direct imprinting of hydroxylapatite nanopowder and wettability tuning via surface microstructuring. Laser Physics Letters, 2013, 10, 045605.	1.4	14

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91	Thermocavitation melt instability and micro-crown formation near the threshold for femtosecond laser spallation of a silicon surface. JETP Letters, 2014, 100, 145-149.	1.4	14
92	Superhydrophylic textures fabricated by femtosecond laser pulses on sub-micro- and nano-crystalline titanium surfaces. Laser Physics Letters, 2014, 11, 125602.	1.4	14
93	Parametric study of first-overtone CO laser with suppressed fundamental band lasing: experiment and theory. Optics Communications, 1998, 155, 197-205.	2.1	13
94	Multiterawatt Ti:Sapphire/KrF laser GARPUN-MTW as a test bench facility for verification of combined amplification of nanosecond and subpicosecond pulses. Journal of Physics: Conference Series, 2010, 244, 032014.	0.4	13
95	Third harmonic generation by ultrashort laser pulses tightly focused in air. Laser Physics, 2011, 21, 500-504.	1.2	13
96	Femtosecond laser ablation of carbon: From spallation to formation of hot critical plasma. AIP Conference Proceedings, 2012, , .	0.4	13
97	Optical apertureless fiber microprobe for surface laser modification of metal films with sub-100nm resolution. Optics Communications, 2013, 308, 125-129.	2.1	13
98	Plasma channels during filamentation of a femtosecond laser pulse with wavefront astigmatism in air. Quantum Electronics, 2014, 44, 1085-1090.	1.0	13
99	Ultrafast femtosecond laser ablation of graphite. Laser Physics Letters, 2015, 12, 075301.	1.4	13
100	CO laser sum-frequency comb for atmosphere sensing. Infrared Physics and Technology, 2019, 100, 62-66.	2.9	13
101	Pulse-width-dependent critical power for self-focusing of ultrashort laser pulses in bulk dielectrics. Optics Letters, 2022, 47, 3487.	3.3	13
102	Master Oscillator-Power Amplifier carbon monoxide laser system emitting nanosecond pulses. Optics Communications, 2012, 285, 2707-2714.	2.1	12
103	Ti:sapphire/KrF hybrid laser system generating trains of subterawatt subpicosecond UV pulses. Quantum Electronics, 2014, 44, 431-439.	1.0	12
104	Energy deposition parameters revealed in the transition from 3D to 1D femtosecond laser ablation of fluorite at high-NA focusing. Optical Materials Express, 2020, 10, 3291.	3.0	12
105	Resonant absorption of first-overtone CO laser radiation by atmospheric water vapor and pollutants. Laser and Particle Beams, 2000, 18, 697-713.	1.0	11
106	Frequency tunable single-line pulsed first-overtone carbon monoxide laser. Optics Communications, 2000, 180, 285-300.	2.1	11
107	Influence of nitrogen oxides NO and NO ₂ on singlet delta oxygen production in pulsed discharge. Journal Physics D: Applied Physics, 2009, 42, 015201.	2.8	11
108	Femtosecond laser ablation of single-wall carbon nanotube-based material. Laser Physics Letters, 2014, 11, 106101.	1.4	11

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109	Spectrally-selective mid-IR laser-induced inactivation of pathogenic bacteria. Biomedical Optics Express, 2021, 12, 6317.	2.9	11
110	The electro-ionization co laser: A multiwavelength ir oscillator (λ = 2.7–3.3 μm; 4.9–6.0 μm). Infrared Physics, 1985, 25, 47-52.	0.5	10
111	Pulsed first-overtone CO laser: effective source of IR radiation in spectral range of 2.5–4.0 μm. Optics Communications, 1999, 160, 255-260.	2.1	10
112	Multiquantum vibrational exchange in highly excited CO molecules. Quantum Electronics, 2000, 30, 573-579.	1.0	10
113	Effects of picosecond terawatt UV laser beam filamentation and a repetitive pulse train on creation of prolonged plasma channels in atmospheric air. Nuclear Instruments & Methods in Physics Research B, 2013, 309, 218-222.	1.4	10
114	Remote Sensing of Nitrous Oxide and Methane Using Emission Lines of a CO Overtone Laser. Journal of Applied Spectroscopy, 2014, 81, 309-312.	0.7	10
115	Background-free, highly sensitive surface-enhanced IR absorption of rhodamine 6G molecules deposited onto an array of microholes in thin silver film. Laser Physics Letters, 2016, 13, 055602.	1.4	10
116	In Vitro Destruction of Pathogenic Bacterial Biofilms by Bactericidal Metallic Nanoparticles via Laser-Induced Forward Transfer. Nanomaterials, 2020, 10, 2259.	4.1	10
117	Femtosecond-laser-excited luminescence of the A-band in natural diamond and its thermal control. Optical Materials Express, 2021, 11, 2505.	3.0	10
118	Pulsed electron-beam-sustained discharge in oxygen-containing gas mixtures: electrical characteristics, spectroscopy,and singlet oxygen yield. Quantum Electronics, 2004, 34, 865-870.	1.0	9
119	Wideband CO laser in problems of laser sensing of minor gaseous components in the atmosphere. Russian Physics Journal, 2008, 51, 1200-1207.	0.4	9
120	Tunneling ionization of air in the strong field of femtosecond laser pulses. JETP Letters, 2009, 90, 181-185.	1.4	9
121	Slab Overtone CO Laser Operating in the 2.5–4.0 Micron Spectral Range. IEEE Journal of Quantum Electronics, 2009, 45, 215-217.	1.9	9
122	Surface enhanced infrared absorption of a dye on a metallic diffraction grating. JETP Letters, 2014, 100, 295-298.	1.4	9
123	Hydrodynamic instabilities of thin Au/Pd alloy film induced by tightly focused femtosecond laser pulses. Applied Surface Science, 2015, 337, 224-229.	6.1	9
124	Non-linear increase and saturation of third-harmonic yield from supported silver nanostructures excited by IR femtosecond laser pulses. Laser Physics Letters, 2016, 13, 035302.	1.4	9
125	Surface-Enhanced IR-Absorption Microscopy of Staphylococcus aureus Bacteria on Bactericidal Nanostructured Si Surfaces. Molecules, 2019, 24, 4488.	3.8	9
126	Birefringent microstructures in bulk fluorite produced by ultrafast pulsewidth-dependent laser inscription. Applied Surface Science, 2021, 568, 150877.	6.1	9

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127	Similarity of angular distribution for THz radiation emitted by laser filament plasma channels of different lengths. Optics Letters, 2020, 45, 4009.	3.3	9
128	Pulsed first-overtone CO laser with output efficiency higher than 10%. Optics Communications, 1999, 171, 107-112.	2.1	8
129	A new laser technique for the formation of oxide surface complexes on carbon cloth. Carbon, 2004, 42, 443-445.	10.3	8
130	Mid-IR Zeeman spectrum of nitric oxide molecules in a strong magnetic field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 025403.	1.5	8
131	Nanostructuring of the surface of silicate glass by femtosecond laser pulses in the UV range. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2014, 81, 262.	0.4	8
132	Structural and electrical characteristics of a hyperdoped silicon surface layer with deep donor sulfur states. JETP Letters, 2014, 100, 55-58.	1.4	8
133	Nonlinear evolution of aluminum surface relief under multiple femtosecond laser irradiation. JETP Letters, 2015, 101, 350-357.	1.4	8
134	Multiple filamentation of supercritical UV laser beam in atmospheric air. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 227-231.	1.4	8
135	Comparative analysis of post-focal filamentation of focused UV and IR laser pulses in air. Quantum Electronics, 2015, 45, 321-329.	1.0	8
136	A bacterial misericorde: laser-generated silicon nanorazors with embedded biotoxic nanoparticles combat the formation of durable biofilms. Laser Physics Letters, 2020, 17, 025601.	1.4	8
137	Multifrequency laser probing of CO-containing gas mixtures excited in a pulsed discharge. Quantum Electronics, 2007, 37, 231-236.	1.0	7
138	Pulsed electron-beam sustained discharge CO laser on oxygen-containing gas mixtures. Quantum Electronics, 2008, 38, 115-124.	1.0	7
139	A cryogenic slab CO laser. Quantum Electronics, 2009, 39, 229-234.	1.0	7
140	High-power IR- and UV-laser systems and their applications. Physics-Uspekhi, 2012, 55, 721-728.	2.2	7
141	Direct measurement of the characteristic three-body electron attachment time in the atmospheric air in direct current electric field. Applied Physics Letters, 2013, 103, 034106.	3.3	7
142	Local field enhancement on metallic periodic surface structures produced by femtosecond laser pulses. Quantum Electronics, 2013, 43, 304-307.	1.0	7
143	Plasma channels under filamentation of infrared and ultraviolet double femtosecond laser pulses. Laser Physics Letters, 2014, 11, 016002.	1.4	7
144	The influence of the energy reservoir on the plasma channel in focused femtosecond laser beams. Laser Physics, 2015, 25, 065402.	1.2	7

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145	Diffraction microgratings as a novel optical biosensing platform. Laser Physics Letters, 2016, 13, 075602.	1.4	7
146	Asymmetric spectral broadening of sub-picosecond laser pulse in BaWO ₄ crystal: interplay of self-phase modulation, stimulated Raman scattering, and orientational Kerr nonlinearity. Optics Letters, 2021, 46, 697.	3.3	7
147	Bactericidal impact of nickel-oxide nanoparticles on foodborne pathogens: Complementary microbiological and IR-spectroscopic insights. Applied Surface Science, 2021, 558, 149857.	6.1	7
148	Interaction of pulsed CO and CO 2 laser radiation with rocks typical of an oil field. , 2000, 3885, 159.		6
149	Theoretical modelling and experimental studies of the multi-quantum vibration exchange in vibrationally excited CO molecules. Journal Physics D: Applied Physics, 2001, 34, 2230-2236.	2.8	6
150	Problems of development of oxygen-iodine laser with electric discharge production of singlet delta oxygen. , 2002, 4760, 506.		6
151	Electric generators of singlet delta oxygen for an oxygen-iodine laser. Laser Physics, 2006, 16, 155-172.	1.2	6
152	Repetitively pulsed and CW sealed-off slab CO laser with cryogenic cooling. , 2007, , .		6
153	Influence of small oxygen additions on the small-signal-gain dynamics in the active medium of a pulsed electron-beam-controlled discharge CO laser. Quantum Electronics, 2008, 38, 833-839.	1.0	6
154	Self-focusing of profiled ultrashort-wavelength laser beams in air. Journal of Experimental and Theoretical Physics, 2013, 116, 197-205.	0.9	6
155	Broadband frequency conversion of laser radiation in ZnGeP2 crystal. Bulletin of the Lebedev Physics Institute, 2014, 41, 222-225.	0.6	6
156	Formation of plasma channels in air under filamentation of focused ultrashort laser pulses. Laser Physics, 2015, 25, 033001.	1.2	6
157	Frequency-angular distribution for terahertz emission of single-color laser filament plasma under an electrostatic field. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2168.	2.1	6
158	Influence of air humidity on 248-nm ultraviolet laser pulse filamentation. Optics Letters, 2019, 44, 2165.	3.3	6
159	<title>Supersonic electron beam controlled discharge CO laser</title> ., 1991, 1397, 453.		5
160	High-frequency temporal structure of laser and phase-conjugated signals in intracavity degenerate four-wave mixing of radiation from electron-beam-controlled discharge CO2and CO lasers in their active media. Quantum Electronics, 1997, 27, 614-620.	1.0	5
161	Breakdown of highly excited oxygen in a DC electric field. Plasma Physics Reports, 2000, 26, 278-282.	0.9	5
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162 Theoretical studies on kinetics of singlet oxygen in nonthermal plasma. , 2004, , .

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163	The methods of singlet oxygen detection for DOIL program. , 2004, , .		5
164	Singlet oxygen in the low-temperature plasma of an electron-beam-sustained discharge. Plasma Physics Reports, 2006, 32, 429-439.	0.9	5
165	Frequency conversion of radiation of IR molecular gas lasers in nonlinear crystals (A review). Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 119, 356-362.	0.6	5
166	Reflection of a probe pulse and thermal emission of electrons produced by an aluminum film heated by a femtosecond laser pulse. Journal of Experimental and Theoretical Physics, 2015, 120, 937-945.	0.9	5
167	Specific features of single-pulse femtosecond laser micron and submicron ablation of a thin silver film coated with a micron-thick photoresist layer. Quantum Electronics, 2015, 45, 462-466.	1.0	5
168	Polarization-Sensitive Surface-Enhanced In Situ Photoluminescence Spectroscopy of S. aureus Bacteria on Gold Nanospikes. Sensors, 2020, 20, 2466.	3.8	5
169	Multifunctional Sulfurâ€Hyperdoped Silicon Nanoparticles with Engineered Midâ€Infrared Sulfurâ€Impurity and Freeâ€Carrier Absorption. Particle and Particle Systems Characterization, 2020, 37, 2000010.	2.3	5
170	Energy, spectral, and angular properties of post-filamentation channels during propagation in air and condensed media. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G19.	2.1	5
171	Range of multiple filamentation of a terawatt-power large-aperture KrF laser beam in atmospheric air. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G25.	2.1	5
172	Master-oscilltor-amplifier electroionization carbon monoxide laser system and propagation of its radiation through atmosphere. Journal of Infrared, Millimeter and Terahertz Waves, 1987, 8, 549-571.	0.6	4
173	<title>High-power N2O laser as alternative to CO<formula><inf><roman>2</roman></inf></formula>
laser</title> . , 1994, , .		4
174	<title>Room temperature repetitively pulsed e-beam sustained carbon monoxide laser</title> . , 1995, , .		4
175	Turbulent structure of the active medium of a fast-flow CO2laser. Quantum Electronics, 2003, 33, 671-676.	1.0	4
176	Compact sealed-off cryogenic slab RF discharge CO laser. , 2006, , .		4
177	Non-linear Absorption and Ionization of Gases by Intense Femtosecond Laser Pulses. , 2010, , .		4
178	Nonlinear propagation of a high-power focused femtosecond laser pulse in air under atmospheric and reduced pressure. Quantum Electronics, 2012, 42, 319-326.	1.0	4
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