

Andrey A Ionin

List of Publications by Year in descending order

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306
papers

3,931
citations

182225

30
h-index

232693

48
g-index

307
all docs

307
docs citations

307
times ranked

2370
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of nanoparticle yield for biomedical applications at femto-, pico- and nanosecond laser ablation of thin gold films in water. <i>Laser Physics Letters</i> , 2022, 19, 045603.	0.6	4
2	Focusing effects during ultrashort-pulse laser ablative generation of colloidal nanoparticles for antibacterial applications. <i>Laser Physics Letters</i> , 2022, 19, 065601.	0.6	4
3	Generation of silver nanoparticles from thin films and their antibacterial properties. <i>Laser Physics Letters</i> , 2022, 19, 075603.	0.6	2
4	Pulse-width-dependent critical power for self-focusing of ultrashort laser pulses in bulk dielectrics. <i>Optics Letters</i> , 2022, 47, 3487.	1.7	13
5	You shall not pass: Ti nanospoke-based sterilizer in fluid flow reactor. <i>Laser Physics Letters</i> , 2021, 18, 035603.	0.6	3
6	Asymmetric spectral broadening of sub-picosecond laser pulse in BaWO ₄ crystal: interplay of self-phase modulation, stimulated Raman scattering, and orientational Kerr nonlinearity. <i>Optics Letters</i> , 2021, 46, 697.	1.7	7
7	Frequency-angular distribution for terahertz emission of single-color laser filament plasma under an electrostatic field. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2168.	0.9	6
8	Broadband (8.5–13.5 μm) intra-pulse difference frequency generation in a LiGaS ₂ crystal of a 90-fs 744-nm laser pulse after its continuous redshift in air. <i>Optics Letters</i> , 2021, 46, 3420.	1.7	2
9	Femtosecond-laser-excited luminescence of the A-band in natural diamond and its thermal control. <i>Optical Materials Express</i> , 2021, 11, 2505.	1.6	10
10	Bactericidal impact of nickel-oxide nanoparticles on foodborne pathogens: Complementary microbiological and IR-spectroscopic insights. <i>Applied Surface Science</i> , 2021, 558, 149857.	3.1	7
11	Spectrally-selective mid-IR laser-induced inactivation of pathogenic bacteria. <i>Biomedical Optics Express</i> , 2021, 12, 6317.	1.5	11
12	Birefringent microstructures in bulk fluorite produced by ultrafast pulsewidth-dependent laser inscription. <i>Applied Surface Science</i> , 2021, 568, 150877.	3.1	9
13	Mid-IR-Sensitive n/p-Junction Fabricated on p-Type Si Surface via Ultrashort Pulse Laser n-Type Hyperdoping and High-Temperature Annealing. <i>ACS Applied Electronic Materials</i> , 2021, 3, 769-777.	2.0	1
14	Few Percent Efficient Polarization-Sensitive Conversion in Nonlinear Plasmonic Interactions Inside Oligomeric Gold Structures. <i>Sensors</i> , 2021, 21, 59.	2.1	1
15	Tracing Evolution of Angle-Wavelength Spectrum along the 40-m Postfilament in Corridor Air. <i>Photonics</i> , 2021, 8, 446.	0.9	3
16	A bacterial misericorde: laser-generated silicon nanorazors with embedded biotoxic nanoparticles combat the formation of durable biofilms. <i>Laser Physics Letters</i> , 2020, 17, 025601.	0.6	8
17	Frequency down-conversion of multiline CO laser into the THz range with ZnGeP ₂ crystal. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	132
18	In Vitro Destruction of Pathogenic Bacterial Biofilms by Bactericidal Metallic Nanoparticles via Laser-Induced Forward Transfer. <i>Nanomaterials</i> , 2020, 10, 2259.	1.9	10

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19	Ablation of BaWO ₄ Crystal by Ultrashort Laser Pulses. <i>Crystals</i> , 2020, 10, 754.	1.0	1
20	Polarization-Sensitive Surface-Enhanced In Situ Photoluminescence Spectroscopy of <i>S. aureus</i> Bacteria on Gold Nanospikes. <i>Sensors</i> , 2020, 20, 2466.	2.1	5
21	Multifunctional Sulfur- ¹⁸ O Hyperdoped Silicon Nanoparticles with Engineered Mid-Infrared Sulfur Impurity and Free-Carrier Absorption. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000010.	1.2	5
22	Deeply sub-wavelength laser nanopatterning of Si surface in dielectric fluids: Manipulation by surface plasmon resonance. <i>Applied Surface Science</i> , 2020, 519, 146204.	3.1	28
23	Similarity of angular distribution for THz radiation emitted by laser filament plasma channels of different lengths. <i>Optics Letters</i> , 2020, 45, 4009.	1.7	9
24	Energy deposition parameters revealed in the transition from 3D to 1D femtosecond laser ablation of fluorite at high-NA focusing. <i>Optical Materials Express</i> , 2020, 10, 3291.	1.6	12
25	CO laser sum-frequency comb for atmosphere sensing. <i>Infrared Physics and Technology</i> , 2019, 100, 62-66.	1.3	13
26	Nanosecond-Laser Generation of Nanoparticles in Liquids: From Ablation through Bubble Dynamics to Nanoparticle Yield. <i>Materials</i> , 2019, 12, 562.	1.3	42
27	Nonlinear Frequency Conversion of Broadband Mid-IR Laser Radiation. , 2019, , .		0
28	Surface-Enhanced IR-Absorption Microscopy of <i>Staphylococcus aureus</i> Bacteria on Bactericidal Nanostructured Si Surfaces. <i>Molecules</i> , 2019, 24, 4488.	1.7	9
29	Antibacterial coatings of Se and Si nanoparticles. <i>Applied Surface Science</i> , 2019, 469, 220-225.	3.1	58
30	High-throughput laser generation of Si-nanoparticle based surface coatings for antibacterial applications. <i>Applied Surface Science</i> , 2019, 470, 825-831.	3.1	20
31	Broad-range ultrafast all-optical red-shifting of EUV surface plasmons: Proof-of-principle and advanced surface nanotexturing in aluminum. <i>Applied Surface Science</i> , 2019, 471, 23-27.	3.1	1
32	Super-broadband hybrid mid-infrared laser systems. , 2019, , .		2
33	Hybrid molecular gas laser systems operating within wavelength range of 1.7–19.3 micron. , 2019, , .		3
34	Energy, spectral, and angular properties of post-filamentation channels during propagation in air and condensed media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, G19.	0.9	5
35	Range of multiple filamentation of a terawatt-power large-aperture KrF laser beam in atmospheric air. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, G25.	0.9	5
36	Influence of air humidity on 248-nm ultraviolet laser pulse filamentation. <i>Optics Letters</i> , 2019, 44, 2165.	1.7	6

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37	Transverse optical pumping of e-beam excited high-pressure He/Ar mixture with a laser diode array. , 2019, , .		0
38	Comparison of terahertz radiation spectra emitted from single-color IR and UV filaments. , 2019, , .		0
39	Role of ozone in cryogenic plasma of carbon monoxide laser. , 2019, , .		0
40	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.	3.1	28
41	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.	2.4	36
42	Sum-frequency generation of Q-switched CO laser radiation in BaGa ₂ GeSe ₆ and GaSe nonlinear crystals. Optical and Quantum Electronics, 2018, 50, 1.	1.5	17
43	Electric Discharge CO Lasers. , 2018, , 201-238.		4
44	Direct laser writing of barriers with controllable permeability in porous glass. Optics Express, 2018, 26, 28150.	1.7	15
45	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.	3.1	15
46	Difference frequencies of CO and CO ₂ lasers when tuning phase-matching angle in AgGaSe ₂ crystal. , 2016, , .		0
47	Q-switched cryogenically cooled slab RF discharge CO laser. , 2016, , .		0
48	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.	0.6	10
49	Femtosecond laser-induced stress-free ultra-densification inside porous glass. Laser Physics Letters, 2016, 13, 055901.	0.6	23
50	Diffraction microgratings as a novel optical biosensing platform. Laser Physics Letters, 2016, 13, 075602.	0.6	7
51	On-Fly Femtosecond-Laser Fabrication of Self-Organized Plasmonic Nanotextures for Chemo- and Biosensing Applications. ACS Applied Materials & Interfaces, 2016, 8, 24946-24955.	4.0	58
52	Pulse-width-dependent surface ablation of copper and silver by ultrashort laser pulses. Laser Physics Letters, 2016, 13, 076101.	0.6	25
53	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.	0.6	9
54	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.	0.6	33

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55	Ultrafast femtosecond laser ablation of graphite. Laser Physics Letters, 2015, 12, 075301.	0.6	13
56	The influence of the energy reservoir on the plasma channel in focused femtosecond laser beams. Laser Physics, 2015, 25, 065402.	0.6	7
57	Nanoscale boiling during single-shot femtosecond laser ablation of thin gold films. JETP Letters, 2015, 101, 394-397.	0.4	33
58	Spectroscopy based on target luminescence caused by interaction with UV filaments. Laser Physics Letters, 2015, 12, 065701.	0.6	3
59	Electron emission and ultrafast low-fluence plasma formation during single-shot femtosecond laser surface ablation of various materials. JETP Letters, 2015, 101, 308-312.	0.4	18
60	Dynamic polarization flip in nanoripples on photoexcited Ti surface near its surface plasmon resonance. Optics Letters, 2015, 40, 4967.	1.7	22
61	Structural transformation and residual stresses in surface layers of $\hat{1}\pm\hat{A}+\hat{A}^2$ titanium alloys nanotextured by femtosecond laser pulses. Applied Physics A: Materials Science and Processing, 2015, 119, 241-247.	1.1	34
62	Mode-locked and Q-switched carbon monoxide laser system. Optics Communications, 2015, 345, 163-167.	1.0	17
63	Nonlinear optical dynamics during femtosecond laser nanostructuring of a silicon surface. Laser Physics Letters, 2015, 12, 025902.	0.6	18
64	Hydrodynamic instabilities of thin Au/Pd alloy film induced by tightly focused femtosecond laser pulses. Applied Surface Science, 2015, 337, 224-229.	3.1	9
65	Extended plasma channels created by UV laser in air and their application to control electric discharges. Plasma Physics Reports, 2015, 41, 112-146.	0.3	18
66	Enhanced relativistic laser-plasma coupling utilizing laser-induced micromodified target. Laser Physics Letters, 2015, 12, 046005.	0.6	16
67	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.	0.2	33
68	Nonlinear evolution of aluminum surface relief under multiple femtosecond laser irradiation. JETP Letters, 2015, 101, 350-357.	0.4	8
69	Multiple filamentation of supercritical UV laser beam in atmospheric air. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 227-231.	0.6	8
70	Formation of plasma channels in air under filamentation of focused ultrashort laser pulses. Laser Physics, 2015, 25, 033001.	0.6	6
71	Femtosecond laser filament and plasma channels in focused beam in air. Proceedings of SPIE, 2015, , .	0.8	1
72	Flash-imprinting of intense femtosecond surface plasmons for advanced nanoantenna fabrication. Optics Letters, 2015, 40, 1687.	1.7	21

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73	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.	0.3	23
74	Frequency conversion of mode-locked and Q-switched CO laser radiation with efficiency up to 37%. Optics Letters, 2015, 40, 2997.	1.7	29
75	Experimental study of fs-laser induced sub-100-nm periodic surface structures on titanium. Optics Express, 2015, 23, 5915.	1.7	95
76	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.	0.2	5
77	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.	0.2	5
78	Comparative analysis of post-focal filamentation of focused UV and IR laser pulses in air. Quantum Electronics, 2015, 45, 321-329.	0.3	8
79	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.	0.3	5
80	Photofragmentation of colloidal solutions of gold nanoparticles under femtosecond laser pulses in IR and visible ranges. Quantum Electronics, 2015, 45, 472-476.	0.3	4
81	Effect of nonlinearity in the pass-through optics on femtosecond laser filament in air. Laser Physics Letters, 2015, 12, 015403.	0.6	4
82	Surface enhanced infrared absorption of a dye on a metallic diffraction grating. JETP Letters, 2014, 100, 295-298.	0.4	9
83	Plasma channels during filamentation of a femtosecond laser pulse with wavefront astigmatism in air. Quantum Electronics, 2014, 44, 1085-1090.	0.3	13
84	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.	0.2	8
85	Directed transfer of microwave radiation in sliding-mode plasma waveguides produced by ultraviolet laser in atmospheric air. Applied Optics, 2014, 53, 131.	2.1	21
86	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.	0.8	29
87	Broadband hybrid IR laser system emitting within 2.5-16.57 micron. Proceedings of SPIE, 2014, , .	0.8	4
88	Ti:sapphire/KrF hybrid laser system generating trains of subterawatt subpicosecond UV pulses. Quantum Electronics, 2014, 44, 431-439.	0.3	12
89	Structural and electrical characteristics of a hyperdoped silicon surface layer with deep donor sulfur states. JETP Letters, 2014, 100, 55-58.	0.4	8
90	Relaxation phenomena in electronic and lattice subsystems on iron surface during its ablation by ultrashort laser pulses. JETP Letters, 2014, 99, 51-55.	0.4	47

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91	Plasma channels under filamentation of infrared and ultraviolet double femtosecond laser pulses. Laser Physics Letters, 2014, 11, 016002.	0.6	7
92	“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.	1.1	24
93	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.	4.0	56
94	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.	3.1	24
95	On the possibility of increasing lifetime of a neutron generator target through laser-induced nanorelief generation at the film “ substrate interface. Quantum Electronics, 2014, 44, 829-835.	0.3	0
96	Thermocavitation melt instability and micro-crown formation near the threshold for femtosecond laser spallation of a silicon surface. JETP Letters, 2014, 100, 145-149.	0.4	14
97	Nanoscale hydrodynamic instability in a molten thin gold film induced by femtosecond laser ablation. JETP Letters, 2014, 99, 518-522.	0.4	27
98	Broadband frequency conversion of laser radiation in ZnGeP2 crystal. Bulletin of the Lebedev Physics Institute, 2014, 41, 222-225.	0.1	6
99	Superhydrophilic textures fabricated by femtosecond laser pulses on sub-micro- and nano-crystalline titanium surfaces. Laser Physics Letters, 2014, 11, 125602.	0.6	14
100	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.	1.1	32
101	Single-shot front-side nanoscale femtosecond laser ablation of a thin silver film. Applied Physics A: Materials Science and Processing, 2014, 117, 981-985.	1.1	19
102	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.	0.2	20
103	Femtosecond laser ablation of single-wall carbon nanotube-based material. Laser Physics Letters, 2014, 11, 106101.	0.6	11
104	Enhancement of ultrafast electron photoemission from metallic nanoantennas excited by a femtosecond laser pulse. Laser Physics Letters, 2014, 11, 065301.	0.6	32
105	Remote Sensing of Nitrous Oxide and Methane Using Emission Lines of a CO Overtone Laser. Journal of Applied Spectroscopy, 2014, 81, 309-312.	0.3	10
106	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.	0.3	25
107	Zeeman Effect treatment in the infrared spectrum of the nitric oxide molecule. , 2014, , .		1
108	Optical apertureless fiber microprobe for surface laser modification of metal films with sub-100nm resolution. Optics Communications, 2013, 308, 125-129.	1.0	13

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109	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.	0.6	10
110	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.	0.3	20
111	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.	1.5	7
112	Sub-100 nanometer transverse gratings written by femtosecond laser pulses on a titanium surface. Laser Physics Letters, 2013, 10, 056004.	0.6	31
113	Laser ablation of polished and nanostructured titanium surfaces by nanosecond laser pulses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 88, 15-19.	1.5	21
114	Beam spatial profile effect on femtosecond laser surface structuring of titanium in scanning regime. Applied Surface Science, 2013, 284, 634-637.	3.1	25
115	Self-focusing of profiled ultrashort-wavelength laser beams in air. Journal of Experimental and Theoretical Physics, 2013, 116, 197-205.	0.2	6
116	Focusing of intense femtosecond surface plasmon-polaritons. JETP Letters, 2013, 97, 599-603.	0.4	18
117	Controlling plasma channels through ultrashort laser pulse filamentation. , 2013, , .		2
118	Femtosecond laser modification of titanium surfaces: direct imprinting of hydroxylapatite nanopowder and wettability tuning via surface microstructuring. Laser Physics Letters, 2013, 10, 045605.	0.6	14
119	Filamentation of IR and UV femtosecond pulses upon focusing in air. Quantum Electronics, 2013, 43, 29-36.	0.3	26
120	Thermal melting and ablation of silicon by femtosecond laser radiation. Journal of Experimental and Theoretical Physics, 2013, 116, 347-362.	0.2	97
121	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.	0.4	21
122	Direct femtosecond laser fabrication of antireflective layer on GaAs surface. Applied Physics B: Lasers and Optics, 2013, 111, 419-423.	1.1	42
123	Through nanohole formation in thin metallic film by single nanosecond laser pulses using optical dielectric apertureless probe. Optics Letters, 2013, 38, 1452.	1.7	38
124	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.	0.9	30
125	Triggering and guiding of electric discharge by a train of sub-TW UV laser pulses. Proceedings of SPIE, 2013, , .	0.8	0
126	Advanced carbon monoxide laser systems. , 2013, , .		0

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127	Broadband carbon monoxide laser system operating in the wavelength range of 2.5 μ m – 8.3 μ m. Quantum Electronics, 2013, 43, 139-143.	0.3	50
128	Local field enhancement on metallic periodic surface structures produced by femtosecond laser pulses. Quantum Electronics, 2013, 43, 304-307.	0.3	7
129	Self-limited ionization of GaAs at high femtosecond laser intensities. , 2012, , .		1
130	Triggering and guiding electric discharge by a train of ultraviolet picosecond pulses combined with a long ultraviolet pulse. Applied Physics Letters, 2012, 100, 104105.	1.5	45
131	High-power IR- and UV-laser systems and their applications. Physics-Uspekhi, 2012, 55, 721-728.	0.8	7
132	MOPA carbon monoxide laser system emitting nanosecond pulses. Proceedings of SPIE, 2012, , .	0.8	1
133	Femtosecond laser ablation of carbon: From spallation to formation of hot critical plasma. AIP Conference Proceedings, 2012, , .	0.3	13
134	Nonlinear propagation of a high-power focused femtosecond laser pulse in air under atmospheric and reduced pressure. Quantum Electronics, 2012, 42, 319-326.	0.3	4
135	Ultrafast electron dynamics on the silicon surface excited by an intense femtosecond laser pulse. JETP Letters, 2012, 96, 375-379.	0.4	24
136	Sub- and near-threshold femtosecond laser nanostructuring of solid surfaces. , 2012, , .		1
137	Self-limited ionization in bandgap renormalized GaAs at high femtosecond laser intensities. Optical Engineering, 2012, 51, 121808.	0.5	14
138	Comparative study of femtosecond and nanosecond laser ablation for propulsion applications. , 2012, , .		3
139	Advanced CO laser systems. Proceedings of SPIE, 2012, , .	0.8	0
140	Femtosecond laser color marking of metal and semiconductor surfaces. Applied Physics A: Materials Science and Processing, 2012, 107, 301-305.	1.1	74
141	Dynamics of the spallative ablation of a GaAs surface irradiated by femtosecond laser pulses. JETP Letters, 2012, 94, 753-758.	0.4	20
142	Master Oscillator-Power Amplifier carbon monoxide laser system emitting nanosecond pulses. Optics Communications, 2012, 285, 2707-2714.	1.0	12
143	Surface nanostructuring of Ni/Cu foils by femtosecond laser pulses. Quantum Electronics, 2011, 41, 387-392.	0.3	25
144	Near-threshold femtosecond laser fabrication of one-dimensional subwavelength nanogratings on a graphite surface. Physical Review B, 2011, 83, .	1.1	48

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145	Generation and detection of superstrong shock waves during ablation of an aluminum surface by intense femtosecond laser pulses. JETP Letters, 2011, 94, 34-38.	0.4	30
146	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.	0.4	46
147	Formation of quasi-periodic nano- and microstructures on silicon surface under IR and UV femtosecond laser pulses. Quantum Electronics, 2011, 41, 829-834.	0.3	19
148	Third harmonic generation by ultrashort laser pulses tightly focused in air. Laser Physics, 2011, 21, 500-504.	0.6	13
149	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.	0.2	63
150	Ultrasound diagnostics of optical breakdown and subcritical microplasma in the laser plume. Bulletin of the Lebedev Physics Institute, 2011, 38, 161-167.	0.1	3
151	Nanocomposites based on globular photonic crystals grown by laser ablation using femtosecond laser pulses. Bulletin of the Lebedev Physics Institute, 2011, 38, 328-333.	0.1	2
152	Topological evolution of self-induced silicon nanogratings during prolonged femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2011, 104, 701-705.	1.1	16
153	Mode-locked CO laser frequency doubling in ZnGeP2 with 25% efficiency. Laser Physics Letters, 2011, 8, 723-728.	0.6	25
154	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.	0.6	8
155	Spectroscopic analysis of multicomponent gas mixtures with wide range carbon monoxide laser. Proceedings of SPIE, 2010, , .	0.8	1
156	Slab RF discharge overtone CO laser. , 2010, , .		2
157	Transverse gas flow RF slab discharge generator of singlet delta oxygen for oxygen-iodine laser. Proceedings of SPIE, 2010, , .	0.8	2
158	Non-linear Absorption and Ionization of Gases by Intense Femtosecond Laser Pulses. , 2010, , .		4
159	Femtosecond Laser Micro-structuring Of Transparent Materials And Its Ophthalmologic Applications. , 2010, , .		0
160	Gas-Flow Slab RF Discharge as a Source of Singlet Delta Oxygen for Oxygen Iodine Laser. , 2010, , .		1
161	<title>Carrier dynamics-induced transient photoexcitation and energy deposition in femtosecond-laser irradiated GaAs</title>. , 2010, , .		0
162	Lasers on overtone transitions of carbon monoxide molecule. Laser Physics, 2010, 20, 144-186.	0.6	23

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163	Bulk femtosecond laser marking of natural diamonds. Laser Physics, 2010, 20, 1778-1782.	0.6	21
164	Peculiarities of filamentation of sharply focused ultrashort laser pulses in air. Journal of Experimental and Theoretical Physics, 2010, 111, 724-730.	0.2	25
165	In vitro femtosecond laser subsurface micro-disruption inside human cornea and pre-cleared sclera. Laser Physics Letters, 2010, 7, 463-466.	0.6	15
166	Evolution of black silicon nano- and micro-scale surface topologies upon femtosecond laser irradiation. Proceedings of SPIE, 2010, , .	0.8	0
167	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.	0.3	13
168	Femtosecond laser nanostructuring of metals: sub100-nm one-dimensional surface gratings. Proceedings of SPIE, 2010, , .	0.8	0
169	Nanostructuring of solid surfaces by femtosecond laser pulses. , 2010, , .		3
170	Near-critical phase explosion promoting breakdown plasma ignition during laser ablation of graphite. Physical Review E, 2010, 82, 016404.	0.8	41
171	CO laser frequency conversion in nonlinear crystals ZnGeP ₂ and GaSe. Proceedings of SPIE, 2010, , .	0.8	2
172	Optical and ultrasonic signatures of femtosecond pulse filamentation in fused silica. Journal of Applied Physics, 2009, 105, .	1.1	18
173	Influence of nitrogen oxides NO and NO ₂ on singlet delta oxygen production in pulsed discharge. Journal Physics D: Applied Physics, 2009, 42, 015201.	1.3	11
174	Slab overtone carbon monoxide laser. Proceedings of SPIE, 2009, , .	0.8	1
175	Femtosecond laser writing of subwave one-dimensional quasiperiodic nanostructures on a titanium surface. JETP Letters, 2009, 90, 107-110.	0.4	80
176	Tunneling ionization of air in the strong field of femtosecond laser pulses. JETP Letters, 2009, 90, 181-185.	0.4	9
177	Multiple filamentation of intense femtosecond laser pulses in air. JETP Letters, 2009, 90, 423-427.	0.4	39
178	RF discharge slab CO laser operating in both fundamental and first-overtone bands. Optics Communications, 2009, 282, 629-634.	1.0	17
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