

Sergey I Kudryashov

List of Publications by Year in descending order

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396
papers

5,104
citations

117453

34
h-index

197535

49
g-index

399
all docs

399
docs citations

399
times ranked

3033
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of ultrafast electronic and atomistic dynamics in bulk photoluminescence of CVD and natural diamonds excited by ultrashort laser pulses of variable pulsewidth. <i>Applied Surface Science</i> , 2022, 575, 151736.	3.1	13
2	Ablation efficiency of gold at fs/ps laser treatment in water and air. <i>Laser Physics Letters</i> , 2022, 19, 026001.	0.6	4
3	Microfluidic water flow on laser-patterned MicroCoat [®] - coated steel surface. <i>Applied Surface Science</i> , 2022, 581, 152258.	3.1	1
4	Quantitative evaluation of LAL productivity of colloidal nanomaterials: Which laser pulse width is more productive, ergonomic, and economic?. <i>Chinese Physics B</i> , 2022, 31, 077803.	0.7	8
5	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
6	Alloyed Au/Pd nanoparticles formed by laser ablation of thin films in liquid. <i>Laser Physics Letters</i> , 2022, 19, 055001.	0.6	1
7	Ultrafast spectroscopy of C-H vibrations in pathogenic bacteria in 3- $\hat{1}$ / ₄ m spectral range. <i>Laser Physics Letters</i> , 2022, 19, 015602.	0.6	3
8	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
9	Direct laser writing regimes for bulk inscription of polarization-based spectral microfilters and fabrication of microfluidic bio/chemosensor in bulk fused silica. <i>Laser Physics Letters</i> , 2022, 19, 065602.	0.6	6
10	Polarization-dependent near-IR ultrashort-pulse laser ablation of natural diamond surfaces. <i>Applied Surface Science</i> , 2022, 595, 153549.	3.1	5
11	Transformations of the Spectrum of an Optical Phonon Excited in Raman Scattering in the Bulk of Diamond by Ultrashort Laser Pulses with a Variable Duration. <i>JETP Letters</i> , 2022, 115, 251-255.	0.4	10
12	Generation of silver nanoparticles from thin films and their antibacterial properties. <i>Laser Physics Letters</i> , 2022, 19, 075603.	0.6	2
13	Asymmetric Spectral Broadening of 0.3 ps, 1030 nm Laser Pulse in BaWO ₄ Crystal. <i>Journal of Russian Laser Research</i> , 2022, 43, 315-318.	0.3	2
14	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
15	Electroactive nanostructured antibacterial materials. <i>Laser Physics Letters</i> , 2022, 19, 085601.	0.6	2
16	Dynamic all-optical control in ultrashort double-pulse laser ablation. <i>Applied Surface Science</i> , 2021, 537, 147940.	3.1	11
17	Coaxial hole array fabricated by ultrafast femtosecond-laser processing with spatially multiplexed vortex beams for surface enhanced infrared absorption. <i>Applied Surface Science</i> , 2021, 541, 148602.	3.1	14
18	You shall not pass: Ti nanospoke-based sterilizer in fluid flow reactor. <i>Laser Physics Letters</i> , 2021, 18, 035603.	0.6	3

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19	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
20	Enhancement of the Absorption of Intense Visible Femtosecond Laser Pulses in a Silver Film. <i>JETP Letters</i> , 2021, 113, 297-300.	0.4	2
21	Numerical Simulation of Plasmon Excitation in Au-Pd Heptamer. <i>Bulletin of the Lebedev Physics Institute</i> , 2021, 48, 72-75.	0.1	0
22	Femtosecond Infrared Laser Spectroscopy of Characteristic Molecular Vibrations in Bacteria in the 6- μ m Spectral Range. <i>JETP Letters</i> , 2021, 113, 365-369.	0.4	4
23	Broadband and fine-structured luminescence in diamond facilitated by femtosecond laser driven electron impact and injection of e^- -vacancy-interstitial pairs. <i>Optics Letters</i> , 2021, 46, 1438.	1.7	16
24	Generation of an Array of Birefringent Nanogratings in the Bulk of Fluorite Irradiated by Ultrashort Laser Pulses with Different Durations. <i>JETP Letters</i> , 2021, 113, 493-497.	0.4	4
25	Elementary autonomous surface microfluidic devices based on laser-fabricated wetting gradient microtextures that drive directional water flows. <i>Optics Express</i> , 2021, 29, 12616.	1.7	7
26	Formation of Nanogratings on the Surface of Nanoporous Glass Irradiated by Femtosecond Visible Laser Pulses. <i>JETP Letters</i> , 2021, 113, 622-625.	0.4	5
27	Nanopatterned silicon exhibiting partial polarization and chirality. <i>Optical Materials Express</i> , 2021, 11, 1971.	1.6	8
28	Cumulative defocusing of sub-MHz-rate femtosecond-laser pulses in bulk diamond envisioned by transient A-band photoluminescence. <i>Optical Materials Express</i> , 2021, 11, 2234.	1.6	11
29	Dynamic light scattering detection of silver nanoparticles, food pathogen bacteria and their bactericidal interactions. <i>Laser Physics Letters</i> , 2021, 18, 086002.	0.6	6
30	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
31	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
32	Ultrashort-laser electron-hole plasma and intragap states in diamond. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	2
33	Spectrally-selective mid-IR laser-induced inactivation of pathogenic bacteria. <i>Biomedical Optics Express</i> , 2021, 12, 6317.	1.5	11
34	Pulsewidth and ambient medium effects during ultrashort-pulse laser ablation of silicon in air and water. <i>Applied Surface Science</i> , 2021, 562, 150243.	3.1	21
35	Birefringent microstructures in bulk fluorite produced by ultrafast pulsewidth-dependent laser inscription. <i>Applied Surface Science</i> , 2021, 568, 150877.	3.1	9
36	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

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37	Topological transition from deeply sub- to near-wavelength ripples during multi-shot mid-IR femtosecond laser exposure of a silicon surface. <i>Optical Materials Express</i> , 2021, 11, 1.	1.6	9
38	Few Percent Efficient Polarization-Sensitive Conversion in Nonlinear Plasmonic Interactions Inside Oligomeric Gold Structures. <i>Sensors</i> , 2021, 21, 59.	2.1	1
39	Ablation of (111) and (001) Crystal Plates by Ultrashort Laser Pulses with Rotated Linear Polarization. <i>JETP Letters</i> , 2021, 114, 117-123.	0.4	2
40	Near-far IR photoconductivity damping in hyperdoped Si at low temperatures. <i>Optical Materials Express</i> , 2021, 11, 3792.	1.6	6
41	Controllable ablative machining of Al/Ti and Ti/Al nano-layers on a Si substrate by single-pulse femtosecond laser irradiation. <i>Applied Optics</i> , 2021, 60, H12.	0.9	0
42	Polygon-facilitated generation of colloidal gold nanoparticles by multi-MHz ultrashort-pulse laser trains: key optical factors. <i>Laser Physics Letters</i> , 2021, 18, 016101.	0.6	2
43	The morphological and compositional changes of bimetallic Ti/Al thin film induced by ultra-short laser pulses. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	2
44	Influence of laser texturing of surface on friction coefficient and wear resistance of titanium and its nitride. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
45	Detection and study of polarized pulsed photoluminescence of diamonds for mapping of natural diamond. <i>Journal of Physics: Conference Series</i> , 2021, 2127, 012050.	0.3	0
46	Formation and Optical Properties of Nanoripples on the Surface of Calcium Fluoride Generated upon Femtosecond Laser Irradiation. <i>Optics and Spectroscopy (English Translation of Optika i Tj ETQq0 0 0 rgBT /Overlap 10 Tf 50 377 Td (</i>	0.3	0
47	Three-dimensional mapping of the optical centers in the bulk of natural diamond by photoluminescent spectroscopy. <i>Journal of Physics: Conference Series</i> , 2021, 2127, 012049.	0.3	0
48	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
49	Nanostructured steel for antibacterial applications. <i>Laser Physics Letters</i> , 2020, 17, 016003.	0.6	19
50	Generating Bessel-Gaussian Beams with Controlled Axial Intensity Distribution. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7911.	1.3	14
51	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
52	Laser-induced surface relief nanocrowns as a manifestation of nanoscale Rayleigh-Plateau hydrodynamic instability. <i>Applied Surface Science</i> , 2020, 511, 145463.	3.1	15
53	Laser-triggered stochastic volumetric heating of sub-microwire array target. <i>High Energy Density Physics</i> , 2020, 37, 100856.	0.4	8
54	Ablation of BaWO4 Crystal by Ultrashort Laser Pulses. <i>Crystals</i> , 2020, 10, 754.	1.0	1

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55	Fabrication of a Functional Relief on the Surface of a Polyvinyl Chloride Film by Nanosecond Laser Microtexturing. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 1251-1255.	0.2	2
56	Laser Formation of Colloidal Sulfur- and Carbon-Doped Silicon Nanoparticles. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 897-901.	0.2	2
57	3D Microstructuring of Silicate Glass by Femtosecond Laser Radiation. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2020, 128, 928-931.	0.2	4
58	Residual stresses in Ti6Al4V alloy after surface texturing by femtosecond laser pulses. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 862, 022060.	0.3	5
59	Hybrid Laser Nanotechnologies for Controlling Resistant Bacterial Biofilms. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2020, 84, 1321-1324.	0.1	0
60	Femto-nanosecond laser ablation of gold target in liquid. <i>Journal of Physics: Conference Series</i> , 2020, 1692, 012010.	0.3	1
61	Micro-Raman spectroscopy of single-shot pulse silicon craters produced by femto-picosecond laser in air and liquid. <i>Journal of Physics: Conference Series</i> , 2020, 1692, 012012.	0.3	0
62	Synthesis of magnetic nanoparticles by laser ablation in a liquid and verification of their antibacterial properties. <i>Journal of Physics: Conference Series</i> , 2020, 1692, 012015.	0.3	0
63	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
64	Surface texturing of steel by femtosecond laser and accompanying structure/phase transformations. <i>Optics and Laser Technology</i> , 2020, 131, 106370.	2.2	8
65	Plasma Enhanced Wet Chemical Surface Activation of TiO ₂ for the Synthesis of High Performance Photocatalytic Au/TiO ₂ Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3345.	1.3	7
66	Multifunctional Sulfur- and Carbon-Doped 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
67	Directional autonomous water flow in laser-engineered microfluidic gradient structures on polymethylmetacrylate-coated steel surface. <i>Laser Physics Letters</i> , 2020, 17, 085602.	0.6	4
68	Single-shot femtosecond laser processing of Al-alloy surface: An interplay between Mbar shock waves, enhanced microhardness, residual stresses, and chemical modification. <i>Optics and Laser Technology</i> , 2020, 126, 106131.	2.2	13
69	Investigation of GaAsBi epitaxial layers for THz emitters pumped by long-wavelength fiber lasers. <i>Optical Materials</i> , 2020, 101, 109716.	1.7	1
70	Femtosecond laser ablation of a thin silver film in air and water. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	7
71	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
72	Fine Structure of the Photoluminescence Spectrum of Diamond under the Multiple Emission of an Optical Phonon during the Autolocalization of Photoexcited Electrons. <i>JETP Letters</i> , 2020, 112, 533-536.	0.4	8

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73	Refractive twisted microaxicons. Optics Letters, 2020, 45, 1334.	1.7	28
74	IR femtosecond laser micro-filaments in diamond visualized by inter-band UV photoluminescence. Optics Letters, 2020, 45, 2026.	1.7	17
75	Highly efficient stimulated Raman scattering of sub-picosecond laser pulses in BaWO ₄ for 10.6-μm difference frequency generation. Optics Letters, 2020, 45, 2160.	1.7	13
76	Silicon microprotrusions with tailored chirality enabled by direct femtosecond laser ablation. Optics Letters, 2020, 45, 3050.	1.7	12
77	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.	1.6	12
78	Spectral broadening of high-intensity 1030-nm sub-picosecond laser pulses in BaWO ₄ crystal. , 2020, , .		0
79	Structural-phase state of near-surface layers of VT6 titanium alloy after femtosecond laser treatment. Letters on Materials, 2020, 10, 243-248.	0.2	0
80	Femtosecond laser ablation of thin silver films in air and water under tight focusing. Optical Materials Express, 2020, 10, 2717.	1.6	5
81	Electronic and vibrational processes in absorbing liquids in femtosecond laser sub- and filamentation regimes: ultrasonic and optical characterization. Laser Physics Letters, 2020, 17, 105302.	0.6	7
82	Laser-induced forward transfer (LIFT) as a method for destroying bacterial biofilms. Journal of Physics: Conference Series, 2020, 1692, 012014.	0.3	0
83	Solid-state sub-picosecond master oscillator for high-pressure CO ₂ laser amplifier. , 2020, , .		0
84	Stochastic electron heating in micro-structured targets irradiated with intense laser radiation and applications. , 2020, , .		0
85	Novel approach of controllable stoichiometric fabrication of alloyed Au/Ag nanoparticles by nanosecond laser ablation of thin bi-layered films in water. Laser Physics Letters, 2019, 16, 096002.	0.6	12
86	Direct femtosecond-laser writing of optical-range nanoscale gratings/metacouplers on diamond surfaces. Applied Physics Letters, 2019, 115, .	1.5	11
87	Ultrafast Broadband Nonlinear Spectroscopy of a Colloidal Solution of Gold Nanoparticles. JETP Letters, 2019, 109, 298-302.	0.4	7
88	Filamentation of an Ultrashort Laser Pulse in a Medium with Artificial Nonlinearity. JETP Letters, 2019, 109, 432-436.	0.4	6
89	Symmetric nanostructuring and plasmonic excitation of gold nanostructures by femtosecond Laguerre-Gaussian laser beams. Quantum Electronics, 2019, 49, 666-671.	0.3	9
90	Fano Resonances as Optical Markers of Sub-Wavelength Nanoparticle Packaging and Elemental Segregation in Laser-Dewetted Au-Pd Film. Plasmonics, 2019, 14, 2013-2019.	1.8	3

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91	Nanosecond Laser Dewetting and Dehomogenization of a Gold-Palladium Film on a Glass Substrate. Bulletin of the Lebedev Physics Institute, 2019, 46, 48-50.	0.1	0
92	Tuning of localized plasmon resonance in colloidal gold nano-particles by ultrafast interband photoinjection of free carriers: Superplasmonic states?. Applied Physics Letters, 2019, 115, .	1.5	6
93	Ultrafast Broadband Diagnostics of the Filling of the s Band at the Two-Photon Femtosecond Laser Excitation of a Gold Film. JETP Letters, 2019, 110, 250-253.	0.4	1
94	Tuning water wetting angle of a steel surface via nanosecond laser ablative nano/microtexturing for chemical and biomedical microfluidic applications. Laser Physics Letters, 2019, 16, 105602.	0.6	8
95	Nano- and microstructured plasmonic substrates for laser and spectral applications. Journal of Physics: Conference Series, 2019, 1238, 012030.	0.3	1
96	Dependence of the Two-Photon Absorption Coefficient of Steel on the Pulse Duration During Its Ablation by Femto- and Picosecond Laser Pulses. JETP Letters, 2019, 110, 107-110.	0.4	5
97	Multi-Purpose Nanovoid Array Plasmonic Sensor Produced by Direct Laser Patterning. Nanomaterials, 2019, 9, 1348.	1.9	15
98	In Situ Supercontinuum Nanopatterning of Silicon Surface by Femtosecond Laser Superfilaments. JETP Letters, 2019, 109, 157-162.	0.4	3
99	Plasmon-Enhanced Two-Photon Absorption of Infrared Femtosecond Laser Pulses in Thin Gold Films. JETP Letters, 2019, 109, 382-386.	0.4	7
100	Laser Structuring of the Surface for Controlling the Wetting Angle. Bulletin of the Lebedev Physics Institute, 2019, 46, 29-31.	0.1	1
101	Plasmon excitation of gold split-ring array: spectral studies and numerical simulation. Laser Physics Letters, 2019, 16, 066007.	0.6	2
102	The effect of laser pulsewidth on the selenium nanoparticles mass yield. Laser Physics Letters, 2019, 16, 066004.	0.6	5
103	Microprocessing of a steel surface by single pulses of variable width. Laser Physics Letters, 2019, 16, 056002.	0.6	15
104	Ultrashort pulse action onto thin film on substrate: Qualitative model of shock propagation in substrate explaining phenomenon of fast growth of a hole with increase of absorbed energy. Journal of Physics: Conference Series, 2019, 1147, 012065.	0.3	3
105	High-throughput micropatterning of plasmonic surfaces by multiplexed femtosecond laser pulses for advanced IR-sensing applications. Applied Surface Science, 2019, 484, 948-956.	3.1	35
106	Nanosecond-Laser Generation of Nanoparticles in Liquids: From Ablation through Bubble Dynamics to Nanoparticle Yield. Materials, 2019, 12, 562.	1.3	42
107	Femtosecond Laser-Induced Periodical Nanomodification of Surface Composition. Semiconductors, 2019, 53, 2094-2099.	0.2	2
108	Acceleration of the Decay of Excitons in an Organometallic Perovskite Film on the Crystalline Silicon Surface. JETP Letters, 2019, 110, 592-594.	0.4	4

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109	Application Laser Transfer of Metal Nanoparticles to Bacterial Biofilms. <i>Molecular Genetics, Microbiology and Virology</i> , 2019, 34, 234-236.	0.0	1
110	Optical and Structural Phenomena at Multipulse Interference Femtosecond Laser Fabrication of Metasurfaces on a Thin Film of Amorphous Silicon. <i>JETP Letters</i> , 2019, 110, 755-759.	0.4	4
111	Plasmonic Nanolenses Produced by Cylindrical Vector Beam Printing for Sensing Applications. <i>Scientific Reports</i> , 2019, 9, 19750.	1.6	31
112	Surface-Enhanced IR-Absorption Microscopy of Staphylococcus aureus Bacteria on Bactericidal Nanostructured Si Surfaces. <i>Molecules</i> , 2019, 24, 4488.	1.7	9
113	Effect of fs/ps laser pulsewidth on ablation of metals and silicon in air and liquids, and on their nanoparticle yields. <i>Applied Surface Science</i> , 2019, 470, 1018-1034.	3.1	37
114	Chirality of laser-printed plasmonic nanoneedles tunable by tailoring spiral-shape pulses. <i>Applied Surface Science</i> , 2019, 470, 526-534.	3.1	57
115	Direct laser printing of tunable IR resonant nanoantenna arrays. <i>Applied Surface Science</i> , 2019, 469, 514-520.	3.1	25
116	Single- and multishot femtosecond laser ablation of silicon and silver in air and liquid environments: Plume dynamics and surface modification. <i>Applied Surface Science</i> , 2019, 476, 576-586.	3.1	28
117	Antibacterial coatings of Se and Si nanoparticles. <i>Applied Surface Science</i> , 2019, 469, 220-225.	3.1	58
118	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
119	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
120	Nanosecond-laser plasma-mediated generation of colloidal solutions from silver films of variable thickness: Colloidal optical density versus pre-determined ablated mass. <i>Optics and Laser Technology</i> , 2019, 111, 75-80.	2.2	12
121	Femtosecond laser filaments in gold colloidal solutions: supercontinuum and ultrasonic tracing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, A125.	0.9	8
122	10-million-elements-per-second printing of infrared-resonant plasmonic arrays by multiplexed laser pulses. <i>Optics Letters</i> , 2019, 44, 283.	1.7	32
123	Symmetry-wise nanopatterning and plasmonic excitation of ring-like gold nanoholes by structured femtosecond laser pulses with different polarizations. <i>Optics Letters</i> , 2019, 44, 1129.	1.7	8
124	Ultra-short laser-induced high aspect ratio densification in porous glass. <i>Optical Materials Express</i> , 2019, 9, 4379.	1.6	3
125	Application laser transfer of metal nanoparticles to bacterial biofilms. <i>Molekuliarnaia Genetika, Mikrobiologiya i Virusologiya</i> , 2019, 37, 192.	0.1	0
126	Laser synthesis of colloidal Si@Au and Si@Ag nanoparticles in water via plasma-assisted reduction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 360, 125-131.	2.0	24

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127	Single-shot selective femtosecond laser ablation of multi-layered Ti/Al and Ni/Ti films: "Cascaded" heat conduction and interfacial thermal effects. Applied Physics Letters, 2018, 112, .	1.5	13
128	Antibacterial effect of the laser-generated Se nanocoatings on <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> biofilms. Laser Physics Letters, 2018, 15, 015604.	0.6	18
129	Separation of Mid-IR Light Trapping and Sulfur-Donor Absorption in Nanosecond-Laser Sulfur-Hyperdoped Silicon: a Way to Spatially- and Spectrally-Engineered Interband IR-Absorption. Journal of Russian Laser Research, 2018, 39, 192-199.	0.3	4
130	Effect of Processing by Femtosecond Pulsed Laser on Mechanical Properties of Submicrocrystalline Titanium. Technical Physics, 2018, 63, 385-390.	0.2	4
131	Formation of nanoparticles from thin silver films irradiated by laser pulses in air. Quantum Electronics, 2018, 48, 251-254.	0.3	4
132	Prompt increase of ultrashort laser pulse transmission through thin silver films. Applied Physics Letters, 2018, 112, 113104.	1.5	8
133	Polarization-selective Excitation of Dye Luminescence on a Gold Film by Structured Ultrashort Laser Pulses. JETP Letters, 2018, 107, 15-18.	0.4	14
134	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
135	Femtosecond laser induced nanostructuring of aluminum films of variable thickness. Laser Physics Letters, 2018, 15, 015901.	0.6	7
136	Ultrafast photoionization and excitation of surface-plasmon-polaritons on diamond surfaces. Applied Surface Science, 2018, 427, 334-343.	3.1	18
137	The grating of micro-holes as a chemosensor with rhodamine 6G molecules. Journal of Physics: Conference Series, 2018, 1092, 012151.	0.3	0
138	The Formation of Oxide Layers on a Titanium Surface by Irradiation with Femtosecond Laser Pulses. Technical Physics Letters, 2018, 44, 1177-1179.	0.2	1
139	Formation of the oxide coating on the titanium surface by multipulse femtosecond laser irradiation. Journal of Physics: Conference Series, 2018, 1115, 042066.	0.3	1
140	Action of a femtosecond laser pulse on thin metal film supported by glass substrate. Journal of Physics: Conference Series, 2018, 1128, 012092.	0.3	1
141	Silicon Ablation by Single Ultrashort Laser Pulses of Variable Width in Air and Water. JETP Letters, 2018, 108, 368-373.	0.4	20
142	Ultrafast laser printing of self-organized bimetallic nanotextures for multi-wavelength biosensing. Scientific Reports, 2018, 8, 16489.	1.6	12
143	Numerical Simulation of Plasmon Excitation in Gold Nanostructure of the Parabolic Nanoantenna Type. Bulletin of the Lebedev Physics Institute, 2018, 45, 350-352.	0.1	3
144	Effect of Laser Exposure on the Process of Silicon Nanoparticle Fabrication. Bulletin of the Lebedev Physics Institute, 2018, 45, 353-355.	0.1	0

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145	Laser-Induced Formation of Molecular Barriers in Porous Glass. <i>Glass Physics and Chemistry</i> , 2018, 44, 486-490.	0.2	2
146	Control of spontaneous emission rate in luminescent resonant diamond particles. <i>Journal of Physics: Conference Series</i> , 2018, 961, 012007.	0.3	3
147	Multi-zone single-shot femtosecond laser ablation of silica glass at variable multi-photon ionization paths. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, B38.	0.9	7
148	Ultrasonic characterization of dry and wet nanosecond laser ablation of solids. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 1095-1100.	2.5	8
149	Large-Scale Laser Fabrication of Antifouling Silicon-Surface Nanosheet Arrays via Nanoplasmonic Ablative Self-Organization in Liquid CS ₂ Tracked by a Sulfur Dopant. <i>ACS Applied Nano Materials</i> , 2018, 1, 2461-2468.	2.4	36
150	Single-shot femtosecond laser ablation of gold surface in air and isopropyl alcohol. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	28
151	Laser Nanostructuring and Three-Dimensional Ink-Jet Printing of Nanocoatings. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018, 82, 444-447.	0.1	1
152	Antibacterial properties of silicon nanoparticles. <i>Laser Physics Letters</i> , 2018, 15, 105602.	0.6	36
153	Direct laser writing of barriers with controllable permeability in porous glass. <i>Optics Express</i> , 2018, 26, 28150.	1.7	15
154	Plasma-mediated Nanosecond-Laser Generation of Si Nanoparticles in Water. <i>KnE Energy</i> , 2018, 3, 65.	0.3	1
155	Surface localisation of laser photoelectron emission using Cu ₂ O and Ag film structures. <i>Quantum Electronics</i> , 2018, 48, 977-982.	0.3	0
156	Laser ablative decoration of micro-diamonds by gold nanoparticles for fabrication of hybrid plasmonic-dielectric antennae. <i>Laser Physics Letters</i> , 2017, 14, 065902.	0.6	7
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