

Sergey Arakelian

List of Publications by Year in descending order

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226
papers

2,022
citations

489802

18
h-index

325983

40
g-index

229
all docs

229
docs citations

229
times ranked

1204
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant synthetic gauge field for spinless microcavity polaritons in crossed electric and magnetic fields. <i>New Journal of Physics</i> , 2021, 23, 023024.	1.2	5
2	Field-Induced Assembly of sp-sp ² Carbon Sponges. <i>Nanomaterials</i> , 2021, 11, 763.	1.9	7
3	Polygonal patterns of confined light. <i>Optics Letters</i> , 2021, 46, 1836.	1.7	5
4	Formation of Fractal Dendrites by Laser-Induced Melting of Aluminum Alloys. <i>Nanomaterials</i> , 2021, 11, 1043.	1.9	5
5	The effect of alloying elements on the interaction of boron carbide with aluminum melt. <i>Non-ferrous Metals</i> , 2021, , 27-33.	0.4	3
6	Spontaneous symmetry breaking in persistent currents of spinor polaritons. <i>Scientific Reports</i> , 2021, 11, 22382.	1.6	6
7	Hybrid optical fiber for light-induced superconductivity. <i>Scientific Reports</i> , 2020, 10, 8131.	1.6	10
8	Nanophysics in laser-induced cluster systems: topological quantum states in electrical conductivity and features of optical spectra—theory and experiment for dimensional effects. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	2
9	Magnetic control over the zitterbewegung of exciton—polaritons. <i>New Journal of Physics</i> , 2020, 22, 083059.	1.2	10
10	The laser-assisted synthesis of linear carbon chains stabilized by noble metal particle. <i>Journal of Physics: Conference Series</i> , 2019, 1164, 012006.	0.3	6
11	Laser technology for low dimensional nanocluster physics. <i>Journal of Physics: Conference Series</i> , 2019, 1164, 012025.	0.3	0
12	Long linear carbon chain—laser-induced structures and possible applications. <i>Laser Physics</i> , 2019, 29, 085901.	0.6	3
13	Topological Laser-Induced Quantum States in Nanocluster Structures: Fundamental Effects and Possible Applications (Electrical and Optical). <i>Optics and Spectroscopy (English Translation of Optika) Tj ETQq1 1 0784314 mgBT /Ov</i>		
14	Nano-Antennas Based on Silicon-Gold Nanostructures. <i>Scientific Reports</i> , 2019, 9, 338.	1.6	28
15	Spatial confinement of the optical Tamm states under patterned metal films. <i>Journal of Physics: Conference Series</i> , 2019, 1164, 012008.	0.3	0
16	Precision formation of PCB topologies by femtosecond laser radiation. <i>Journal of Physics: Conference Series</i> , 2019, 1164, 012018.	0.3	5
17	Model of diffusion packing colloidal particles. <i>Journal of Physics: Conference Series</i> , 2019, 1164, 012024.	0.3	0
18	Formation of a collective bosonic polaron in the exciton polariton condensate. <i>Journal of Physics: Conference Series</i> , 2019, 1164, 012005.	0.3	0

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19	New challenges of femto-nanophotonics: basic principles and possible applications. Journal of Physics: Conference Series, 2019, 1164, 012016.	0.3	0
20	Modeling of macroscopic quantum states in functional properties of the laser-induced 4D-topological nanoclusters in thin films on solid surface. EPJ Web of Conferences, 2019, 220, 01002.	0.1	0
21	Formation of microcrystals under the influence of femtosecond laser radiation on carbon samples in liquid nitrogen. EPJ Web of Conferences, 2019, 220, 02005.	0.1	0
22	The temperature characteristics of plasma induced by femtosecond laser radiation. EPJ Web of Conferences, 2019, 220, 03034.	0.1	1
23	Photosensitive free-standing ultra-thin carbyne-gold films. Optical and Quantum Electronics, 2019, 51, 1.	1.5	3
24	Laser synthesis of graphene in liquid nitrogen. IOP Conference Series: Materials Science and Engineering, 2019, 525, 012052.	0.3	3
25	Mechanisms of graphene exfoliation under the action of femtosecond laser radiation in liquid nitrogen. Journal of Physics: Conference Series, 2018, 951, 012014.	0.3	14
26	Control of propagation of spatially localized polariton wave packets in a Bragg mirror with embedded quantum wells. Journal of Physics: Conference Series, 2018, 951, 012009.	0.3	0
27	Quantum fluctuation and nonlinear properties of exciton polaritons in semiconductor microcavities. Journal of Physics: Conference Series, 2018, 951, 012031.	0.3	0
28	Investigation of Carbon Structures of Single Crystals Obtained by Laser Synthesis. Journal of Surface Investigation, 2018, 12, 392-394.	0.1	7
29	Titanium-Carbide Formation in a Liquid Hydrocarbon Medium by Femtosecond Laser Irradiation. Journal of Surface Investigation, 2018, 12, 1220-1223.	0.1	10
30	Formation of microspheres under the action of femtosecond laser radiation on titanium samples in hydrocarbons. Journal of Physics: Conference Series, 2018, 951, 012015.	0.3	6
31	Metal-carbyne clusters for SERS realization. Journal of Physics: Conference Series, 2018, 951, 012020.	0.3	1
32	Bimetallic clustered thin films with variable electro-optical properties. Journal of Physics: Conference Series, 2018, 951, 012013.	0.3	0
33	Verification of the quantum dimension effects in electrical conductivity with different topology of laser-induced thin-film structures. Journal of Physics: Conference Series, 2018, 951, 012018.	0.3	1
34	Colloidal quasicrystal for photonics. Journal of Physics: Conference Series, 2018, 951, 012022.	0.3	1
35	Laser-Induced Nanocluster Thin-Film Systems with Controlled Topology and Composition: The Possibility of Creating Superconducting Structures Based on New Physical Principles. Crystallography Reports, 2018, 63, 1173-1177.	0.1	0
36	Experimental study of the filaments parameters at the focusing with cylindrical lens. , 2018, , .		1

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37	New metal-carbon composite materials for nanophotonics. , 2018, , .		0
38	Laser synthesis of graphene under the action of femtosecond laser radiation in liquid nitrogen. , 2018, , .		0
39	The Laser-Assisted Synthesis of Linear Carbon Chains Stabilized by Noble Metal Particles. , 2018, , .		0
40	Quantum metrology beyond Heisenberg limit with entangled matter wave solitons. Optics Express, 2018, 26, 19583.	1.7	25
41	Manipulation Of The Propagation Of Light In Tunable Nonlinear Bragg Mirrors With Embedded Quantum Wells. , 2018, , .		0
42	The crossover between tunnel and hopping conductivity in granulated films of noble metals. Superlattices and Microstructures, 2017, 111, 335-339.	1.4	16
43	Tunnel/jump electroconductivity in the laser-induced nanocluster structures with controlled topology. Optical and Quantum Electronics, 2017, 49, 1.	1.5	0
44	The synthesis of resonant gold-silicon NPs in liquid. AIP Conference Proceedings, 2017, , .	0.3	0
45	Metal for Plasmonic Ultraviolet Laser: Al or Ag?. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	1.9	8
46	Fractal bimetallic plasmonic structures obtained by laser deposition of colloidal nanoparticles. AIP Conference Proceedings, 2017, , .	0.3	0
47	The Synthesis of Hybrid Gold-Silicon Nano Particles in a Liquid. Scientific Reports, 2017, 7, 10284.	1.6	32
48	Measurements of electrophysical properties of metal microcontacts using fractal geometry methods for the analysis of atomic-force-microscopy data. Journal of Surface Investigation, 2017, 11, 333-338.	0.1	0
49	Model of the subsurface overheating of carbon samples upon laser impact in liquid nitrogen. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1433-1437.	0.1	5
50	Processing materials in the mode of multiple filamentation of femtosecond laser radiation. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1438-1441.	0.1	5
51	Control of light propagation in modified semiconductor Bragg mirrors with embedded quantum wells. , 2017, , .		0
52	One-dimensional Tamm plasmons: Spatial confinement, propagation, and polarization properties. Physical Review B, 2017, 96, .	1.1	16
53	Femtosecond laser nanostructuring of a tungsten surface. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1429-1432.	0.1	4
54	Electrophysics of nanocluster thin-film systems: Achieving superconducting topological states. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1401-1413.	0.1	3

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55	Metal-carbon nanoclusters for SERS. Journal of Physics: Conference Series, 2017, 784, 012031.	0.3	1
56	Jump electroconductivity in the laser deposited nanoclustered structures. Journal of Physics: Conference Series, 2017, 793, 012002.	0.3	0
57	The CW-laser ablation of resonant silicon NPs in liquid. , 2017, , .		0
58	The topological electroconductivity control in the semiconductor/metal/carbon unit by laser-induced nanogranular structures. , 2017, , .		0
59	Fractal bimetallic thin films obtained by laser deposition of colloidal nanoparticles. , 2017, , .		0
60	The colloidal systems on semiconductor nanoparticles. , 2017, , .		0
61	The laser-induced synthesis of linear carbon chains. , 2017, , .		1
62	Light propagation in semiconductor resonant exciton-polariton hyperbolic metamaterials. , 2017, , .		0
63	Metal-carbyne clusters for SERS realization. , 2017, , .		0
64	Structure and Morphology Effects on the Optical Properties of Bimetallic Nanoparticle Films Laser Deposited on a Glass Substrate. Journal of Nanomaterials, 2017, 2017, 1-9.	1.5	8
65	Drop deposition of thin nanostructured coatings of lead telluride. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1416-1419.	0.1	3
66	Experimental study of laser-induced processes on the surfaces of carbonaceous materials with simultaneous measuring of their temperatures. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1468-1471.	0.1	1
67	Studying the structure and electrical conductivity of thin granulated bimetallic films. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1387-1390.	0.1	2
68	Coherent quantum states in the laser-induced thin film nanocluster structures: optical and electrophysical properties. EPJ Web of Conferences, 2017, 161, 01001.	0.1	0
69	Tuning the characteristics of surface plasmon polariton nanolasers by tailoring the dispersion relation. , 2017, , .		0
70	2015 Disastrous Floods in Louisiana, USA, and Assam, India: Groundwater Impact on the Water Balance Estimation. Hydrology, 2016, 3, 41.	1.3	4
71	Studying the synthesis of metal nanoparticles during the laser irradiation of targets in liquid media. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 351-357.	0.1	5
72	Laser-induced synthesis of a nanostructured polymer-like metal-carbon complexes. Proceedings of SPIE, 2016, , .	0.8	3

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73	On the mechanism of the maintenance of Rabi oscillations in the system of exciton polaritons in a microcavity. JETP Letters, 2016, 103, 51-56.	0.4	2
74	Formation of quasiperiodic bimetal thin films with controlled optical and electrical properties. , 2016, , .		2
75	Electric conductivity of nanocluster PbTe structures with controlled topology: Manifestation of macroscopic quantum effects. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 818-827.	0.1	5
76	Laser processing of materials in the multiple filamentation mode. , 2016, , .		2
77	Formation Monocrystalline Carbon Micro-and Nanostructures Under Femtosecond Laser Irradiation of graphite in Liquid Nitrogen. Physics Procedia, 2016, 83, 182-187.	1.2	13
78	Laser-assisted deposition of the bimetal thin films with pre-difined optical and electrical properties. , 2016, , .		0
79	Hyperbolic metamaterials based on Bragg polariton structures. JETP Letters, 2016, 104, 62-67.	0.4	7
80	Laser-induced synthesis of metalâ€“carbon materials for implementing surface-enhanced Raman scattering. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 121, 263-270.	0.2	23
81	Laser formation of the metal-carbon islands thin films for optical application. , 2016, , .		0
82	Light propagation in tunable exciton-polariton one-dimensional photonic crystals. Physical Review B, 2016, 94, .	1.1	13
83	Optical properties of multilayer bimetallic films obtained by laser deposition of colloidal particles. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 121, 765-768.	0.2	6
84	Progress in the Design of New Photonics and Optoelectronics Elements Using Advantages of Contemporary Femto-Nanophotonics. Journal of Russian Laser Research, 2016, 37, 494-506.	0.3	5
85	Formation of nonclassical states of vortex solitons in optical fibers with quantum dots. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 121, 729-735.	0.2	2
86	Laser-induced synthesis of nanostructured metalâ€“carbon clusters and complexes. Optical and Quantum Electronics, 2016, 48, 1.	1.5	9
87	Two-stage laser-induced synthesis of linear carbon chains. Quantum Electronics, 2016, 46, 627-633.	0.3	22
88	Laser-induced semiconductor nanocluster structures on the solid surface: new physical principles to construct the hybrid elements for photonics. Optical and Quantum Electronics, 2016, 48, 1.	1.5	12
89	Reliable and well-controlled synthesis of noble metal nanoparticles by continuous wave laser ablation in different liquids for deposition of thin films with variable optical properties. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	68
90	Laser ablative nanostructuring of Au in liquid ambience in continuous wave illumination regime. Proceedings of SPIE, 2016, , .	0.8	0

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91	Interaction of femtosecond laser radiation with carbon materials: exfoliation of graphene structures and synthesis of low-dimensional carbon structures. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2016, , 220-225.	0.2	9
92	Hyperbolic Metamaterials with Bragg Polaritons. <i>Physical Review Letters</i> , 2015, 114, 237402.	2.9	27
93	Rabi Oscillations Lifetime Improvement in a System of Exciton Polaritons. <i>EPJ Web of Conferences</i> , 2015, 103, 07001.	0.1	0
94	Quantum Domains for Macroscopic Transport Effects in Nanostructures with Control Topology: Optics and e-Conductivity. <i>EPJ Web of Conferences</i> , 2015, 103, 03001.	0.1	0
95	Three-Dimensional Dissipative Optical Solitons in a Dielectric Medium with Quantum Dots. <i>EPJ Web of Conferences</i> , 2015, 103, 04004.	0.1	0
96	Catastrophic Floods – Possible Contribution of Groundwater due to Flash Reconstruction of the Rock Mass 3D-Cracknet under Seismic Factors. <i>Modern Applied Science</i> , 2015, 9, .	0.4	3
97	Bimodal ensemble of nanoparticles on the surface of epitaxial lead telluride films under continuous laser radiation. <i>Journal of Surface Investigation</i> , 2015, 9, 1156-1163.	0.1	0
98	Dissipative Laser Bullets in a Dielectric Metamaterial with Quantum Dots. <i>Physics Procedia</i> , 2015, 73, 7-14.	1.2	1
99	Atomic Bose-Einstein condensates as nonlinear hyperbolic metamaterials. , 2015, , .		1
100	Laser ablation of carbon targets placed in a liquid. <i>Quantum Electronics</i> , 2015, 45, 731-735.	0.3	13
101	Optical properties of nanostructured gold-silver films formed by deposition of small colloid drops. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2015, 119, 119-123.	0.2	31
102	Dissipative laser bullets in dielectric media containing quantum dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2015, 119, 497-512.	0.2	5
103	Tunneling-assisted optical information storage with lattice polariton solitons in cavity-QED arrays. <i>Physical Review A</i> , 2014, 89, .	1.0	18
104	Laser Nanostructuring of the PbX Thin Films for Creation of the Semiconductor Devices with Controlled Properties. <i>Physics Procedia</i> , 2014, 56, 1115-1125.	1.2	1
105	Storage of optical information in nano-size cavity arrays under the qubit-light interaction. , 2014, , .		0
106	Deposition of bimetallic Au/Ag clusters by the method of laser deposition of nanoparticles from colloidal systems. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2014, 116, 324-327.	0.2	13
107	Electrical properties of metal cluster structures formed on the surface of dielectrics. <i>Technical Physics Letters</i> , 2014, 40, 529-532.	0.2	10
108	New advantages and challenges for laser-induced nanostructured cluster materials: functional capability for experimental verification of macroscopic quantum phenomena. <i>Laser Physics</i> , 2014, 24, 074010.	0.6	19

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109	Laser formation of colloidal alloys of the noble nanoparticles and deposition of the microclusters on the glass substrate. , 2014, , .		0
110	The effect of atomic and optical perturbations on formation and propagation of vortex solitons in a dense atomic media of gas-filled hollow-core optical fibers. European Physical Journal D, 2014, 68, 1.	0.6	14
111	Spatially localized structures and oscillons in atomic Bose-Einstein condensates confined in optical lattices. Physical Review A, 2014, 89, .	1.0	11
112	Lasing and phase transition in atomic system with dressed states. Laser Physics, 2014, 24, 074006.	0.6	0
113	Laser-induced formation of semiconductor nanoparticles and structures. Laser Physics, 2014, 24, 074002.	0.6	9
114	Structure and magnetic properties of Ni-N nanofilms. Functional Materials, 2014, 21, 233-236.	0.4	2
115	Laser-assisted formation of transparent nanostructured carbon films with periodic morphology in a constant electric field. Nanotechnologies in Russia, 2013, 8, 29-35.	0.7	0
116	Formation of a system of microcraters on a titanium surface by femtosecond laser radiation under rapid cooling conditions. Technical Physics Letters, 2013, 39, 719-722.	0.2	16
117	High temperature BEC with photon-like atomic polaritons. European Physical Journal: Special Topics, 2013, 217, 177-181.	1.2	1
118	High-temperature Bose-Einstein condensation of photonlike atom-light polaritons. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 115, 363-367.	0.2	0
119	Lasing and high-temperature phase transitions in atomic systems with dressed-state polaritons. Physical Review A, 2013, 88, .	1.0	8
120	Generation of entangled polaritons in doped media. Proceedings of SPIE, 2013, , .	0.8	0
121	The optical control of spatial dissipative solitons in optical fibers filled with a cold atomic gas. , 2013, , .		0
122	Formation and optical control of dissipative vortex solitons in hollow-core optical fibres filled with a cold atomic gas. Quantum Electronics, 2012, 42, 616-624.	0.3	0
123	Bright solitons in cavity-QED arrays containing two-level atoms. Journal of Physics: Conference Series, 2012, 393, 012030.	0.3	2
124	Dynamic amplification and generation of entangled polaritons in doped media. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 113, 305-313.	0.2	1
125	Phase transition for coupled atom-light states in the presence of optical collisions. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1123-1127.	0.1	0
126	Optical control of vortices in dense media of gas-filled optical fibers. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1109-1114.	0.1	0

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127	Solitons in cavity-QED arrays containing interacting qubits. <i>Physical Review A</i> , 2012, 86, .	1.0	16
128	Laser Formation of Semiconductor Coatings using Droplet Technology. <i>Physics Procedia</i> , 2012, 39, 401-408.	1.2	6
129	Dissipative optical solitons in dense media with optical pumping. <i>Journal of Experimental and Theoretical Physics</i> , 2012, 115, 1-14.	0.2	7
130	Bose-Einstein condensation for trapped atomic polaritons in a biconical waveguide cavity. <i>Physical Review A</i> , 2012, 85, .	1.0	10
131	Pulse laser deposition of cluster nanostructures from colloidal single-component systems. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 611-617.	0.1	10
132	Generation of Raman polaritons in three-level atomic media. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 626-633.	0.1	0
133	Effects of polariton-polariton scattering and the nonlinear properties of polaritonic crystal. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 657-662.	0.1	1
134	CW laser-induced formation of a nanoparticle ensemble with a bimodal size distribution on PbTe films. <i>Quantum Electronics</i> , 2011, 41, 735-737.	0.3	17
135	Laser synthesis of carbon nanofibers and nanoclusters. <i>Nanotechnologies in Russia</i> , 2011, 6, 303-310.	0.7	0
136	Nonlinear properties and stabilities of polaritonic crystals beyond the low-excitation-density limit. <i>Physical Review A</i> , 2011, 84, .	1.0	18
137	High-temperature phase transition in the coupled atom-light system in the presence of optical collisions. <i>Physical Review A</i> , 2011, 83, .	1.0	15
138	Fabrication of the $\text{Er}^{3+}:\text{LiGaSiO}_4$ nano-glass-ceramics. <i>Journal of Crystal Growth</i> , 2011, 328, 95-101.	0.7	4
139	CW laser-induced generation of periodic ring structures on thin PbSe films. <i>Quantum Electronics</i> , 2011, 41, 441-446.	0.3	7
140	Formation of nanostructures at laser ablation under the action of ultrashort laser impulses on a surface of solid states. <i>Physics Procedia</i> , 2010, 5, 213-219.	1.2	3
141	Creating micro and nanostructured metal-carbon multilayers and bulky materials at controlled laser action. <i>Physics Procedia</i> , 2010, 5, 221-230.	1.2	1
142	Generation of polarization-squeezed light in doped resonant media. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	0
143	Laser deposition of multiwalled titanium oxide microtubes. <i>Quantum Electronics</i> , 2010, 40, 642-646.	0.3	6
144	Thermalization of coupled atom-light states in the presence of optical collisions. <i>Physical Review A</i> , 2010, 81, .	1.0	13

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145	Strongly localized polaritons in an array of trapped two-level atoms interacting with a light field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 095502.	0.6	27
146	Phase transition and storage of quantum optical information in spatially periodical atomic structure. Proceedings of SPIE, 2010, , .	0.8	0
147	Solidification structures on carbon materials surface-melted by repetitive laser pulses. Quantum Electronics, 2009, 39, 333-336.	0.3	2
148	Excitation of coherent polaritons in a two-dimensional atomic lattice. Quantum Electronics, 2009, 39, 685-690.	0.3	9
149	Formation of carbon submicron structures and nanostructures on the surface of cold substrates exposed to laser radiation in air. Quantum Electronics, 2008, 38, 73-76.	0.3	5
150	<title>Laser diagnostics of hydrodynamic processes and spatio-temporal instabilities on the substance surface</title>. , 2007, 6606, 220.		0
151	Quantum computing based on one-photon polarisation states of light pulses propagating in a doped resonance medium. Quantum Electronics, 2007, 37, 1115-1118.	0.3	2
152	Formation of nanostructures at the glass-carbon surface exposed to laser radiation. Quantum Electronics, 2007, 37, 1051-1054.	0.3	7
153	Generation of nanostructures on a surface of a cold substrate at laser action on carbon materials in atmospheric air. , 2007, , .		0
154	Intracavity laser pumping of matter and phase transitions in the system of electromagnetic field and optically dense resonant medium without population inversion. Proceedings of SPIE, 2007, , .	0.8	0
155	Carbon's nanostructures formed in a field of powerful laser radiation. Proceedings of SPIE, 2007, , .	0.8	1
156	Reconstructing the relief of a region of laser action on the basis of an image obtained by means of a laser monitor. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2007, 74, 569.	0.2	6
157	Storage of quantum optical information based on the intracavity polaritons under the Bose-Einstein condensation condition. Laser Physics, 2007, 17, 1432-1440.	0.6	5
158	Nonlinear laser amplifier with a suppressed level of quantum noise on the basis of a Bose condensate for ^{23}Na atoms. Physics of Particles and Nuclei Letters, 2007, 4, 200-203.	0.1	0
159	Josephson dynamics for coupled polariton modes under the atomâ€‘field interaction in the cavity. Applied Physics B: Lasers and Optics, 2007, 89, 81-89.	1.1	6
160	Laser diagnostics of the evolution of a carbon surface exposed to high-power laser pulses. Instruments and Experimental Techniques, 2006, 49, 274-279.	0.1	1
161	Melting of carbon heated by focused laser radiation in air at atmospheric pressure and temperature below 4000 K. JETP Letters, 2006, 84, 258-261.	0.4	16
162	Quantum cloning in coupled states of an optical field and an atomic ensemble by means of quasi-condensation of polaritons. Journal of Russian Laser Research, 2006, 27, 482-491.	0.3	6

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163	On the possibility of studying the temporal evolution of a surface relief directly during exposure to high-power radiation. Quantum Electronics, 2006, 36, 569-575.	0.3	30
164	High-temperature Bose-Einstein condensation of polaritons upon intracavity laser pumping of matter. Quantum Electronics, 2006, 36, 532-538.	0.3	8
165	QUANTUM STORAGE AND CLONING OF LIGHT STATES IN EIT-LIKE MEDIUM. International Journal of Modern Physics B, 2006, 20, 1593-1605.	1.0	3
166	Generation and measurement of SU(3) polarization states for quantum information and computing problems in quantum and atomic optics. , 2005, , .		0
167	SU(3) Symmetry Operational Approach to Measuring Amplitude and Phase Parameters for an Optical Field. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 411.	0.2	0
168	Nonlinear Control of the Propagation of Optical Pulses in Doped Optical Fibers. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 604.	0.2	2
169	Quantum operational measurement of amplitude and phase parameters for SU(3) symmetry optical fields. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S745-S749.	1.4	4
170	Nonlinear interaction of light with a Bose-Einstein condensate: Methods to generate sub-Poissonian light. Physical Review A, 2005, 72, .	1.0	13
171	Hydrodynamics of a metal surface melt under the action of laser radiation: Observation of regime changes in the real-time mode. Doklady Physics, 2004, 49, 146-149.	0.2	3
172	SU(3) polarization states in quantum and atomic optics and high-precision measurements. Doklady Physics, 2004, 49, 154-157.	0.2	0
173	Quantum measurements of the parameters of the Gell-Mann optical field with an SU(3) interferometer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 97, 424-432.	0.2	5
174	Generation of nonclassical states of light in the Bose-Einstein condensate under electromagnetically induced transparency. JETP Letters, 2004, 80, 739-742.	0.4	7
175	Title is missing!. Journal of Russian Laser Research, 2003, 24, 168-179.	0.3	1
176	Entangled spin states of a Bose condensate in an electromagnetic field. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 94, 50-60.	0.2	7
177	Mesoscopic quantum properties and the fundamental limit of switching of polarization states of light in spatially periodic systems. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlck 10 TFS		
178	Fractal and dynamic properties of hydrodynamical instabilities on surface substance under laser action. , 2003, , .		0
179	Quantum computing and fundamental limit of self-switching effect for nonlinear spatially inhomogeneous bosonic systems. , 2002, 4750, 85.		0
180	Quantum Limit for Observation of Self-switching Effect of Light in Nonlinear Spatially Inhomogeneous Optical System. Molecular Crystals and Liquid Crystals, 2002, 375, 185-194.	0.4	1

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181	<title>Nonclassical interference and quantum computing in mesoscopic systems: information and entropy aspects</title>. , 2001, 4429, 52.		0
182	<title>Laser-induced hydrodynamic waves on the surface of melt</title>. , 2001, , .		0
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