Sergey Arakelian

List of Publications by Year
in descending order

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226	2,022	430874	289244
papers	citations	18 h-index	40 g-index

229	229	229	1093
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser-induced diffraction rings from a nematic-liquid-crystal film. Optics Letters, 1981, 6, 411.	3.3	426
2	Optical-Field-Induced Birefringence and Freedericksz Transition in a Nematic Liquid Crystal. Physical Review Letters, 1981, 47, 1411-1414.	7.8	295
3	Observation of Magnetic-Fieldâ€"Induced First-Order Optical FrÃ©edericksz Transition in a Nematic Film. Physical Review Letters, 1986, 57, 448-451.	7.8	68
4	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.	1.9	68
5	Strong optical diffraction in a nematic liquid crystal with high nonlinearity. Optics Letters, 1982, 7, 145.	3.3	42
6	Quantum phase measurements and non-classical polarization states of light. Journal of Modern Optics, 1999, 46, 475-507.	1.3	37
7	The Synthesis of Hybrid Gold-Silicon Nano Particles in a Liquid. Scientific Reports, 2017, 7, 10284.	3.3	32
8	Optical properties of nanostructured gold-silver films formed by deposition of small colloid drops. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 119, 119-123.	0.6	31
9	Polarization quantum states of light in nonlinear distributed feedback systems; quantum nondemolition measurements of the Stokes parameters of light and atomic angular momentum. Applied Physics B: Lasers and Optics, 1998, 66, 53-65.	2.2	30
10	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.	1.0	30
11	Nano-Antennas Based on Silicon-Gold Nanostructures. Scientific Reports, 2019, 9, 338.	3.3	28
12	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.	1.5	27
13	Hyperbolic Metamaterials with Bragg Polaritons. Physical Review Letters, 2015, 114, 237402.	7.8	27
14	Quantum metrology beyond Heisenberg limit with entangled matter wave solitons. Optics Express, 2018, 26, 19583.	3.4	25
15	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.	0.6	23
16	Two-stage laser-induced synthesis of linear carbon chains. Quantum Electronics, 2016, 46, 627-633.	1.0	22
17	New advantages and challenges for laser-induced nanostructured cluster materials: functional capability for experimental verification of macroscopic quantum phenomena. Laser Physics, 2014, 24, 074010.	1.2	19
18	Nonlinear properties and stabilities of polaritonic crystals beyond the low-excitation-density limit. Physical Review A, 2011, 84, .	2.5	18

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19	Tunneling-assisted optical information storage with lattice polariton solitons in cavity-QED arrays. Physical Review A, 2014, 89, .	2.5	18
20	HIGHLY NONLINEAR OPTICAL EFFECTS IN LIQUID CRYSTALS. Journal De Physique Colloque, 1983, 44, C2-161-C2-169.	0.2	18
21	CW laser-induced formation of a nanoparticle ensemble with a bimodal size distribution on PbTe films. Quantum Electronics, 2011, 41, 735-737.	1.0	17
22	Interaction of two polarization modes in a spatio-periodic nonlinear medium: generation of polarization-squeezed light and quantum non-demolition measurements of the Stokes parameters. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1997, 9, 311-329.	0.9	16
23	Melting of carbon heated by focused laser radiation in air at atmospheric pressure and temperature below 4000 K. JETP Letters, 2006, 84, 258-261.	1.4	16
24	Solitons in cavity-QED arrays containing interacting qubits. Physical Review A, 2012, 86, .	2.5	16
25	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.	0.7	16
26	The crossover between tunnel and hopping conductivity in granulated films of noble metals. Superlattices and Microstructures, 2017, 111, 335-339.	3.1	16
27	One-dimensional Tamm plasmons: Spatial confinement, propagation, and polarization properties. Physical Review B, 2017, 96, .	3.2	16
28	High-temperature phase transition in the coupled atom-light system in the presence of optical collisions. Physical Review A, 2011, 83, .	2.5	15
29	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.	1.3	14
30	Mechanisms of graphene exfoliation under the action of femtosecond laser radiation in liquid nitrogen. Journal of Physics: Conference Series, 2018, 951, 012014.	0.4	14
31	Nonlinear interaction of light with a Bose-Einstein condensate: Methods to generate sub-Poissonian light. Physical Review A, 2005, 72, .	2.5	13
32	Thermalization of coupled atom-light states in the presence of optical collisions. Physical Review A, 2010, 81, .	2.5	13
33	Deposition of bimetallic Au/Ag clusters by the method of laser deposition of nanoparticles from colloidal systems. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 324-327.	0.6	13
34	Laser ablation of carbon targets placed in a liquid. Quantum Electronics, 2015, 45, 731-735.	1.0	13
35	Formation Monocrystalline Carbon Micro-and Nanostructures Under Femtosecond Laser Irradiation of graphite in Liquid Nitrogen. Physics Procedia, 2016, 83, 182-187.	1.2	13
36	Light propagation in tunable exciton-polariton one-dimensional photonic crystals. Physical Review B, 2016, 94, .	3.2	13

#	Article	IF	Citations
37	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.	3.3	12
38	Spatially localized structures and oscillons in atomic Bose-Einstein condensates confined in optical lattices. Physical Review A, 2014, 89, .	2.5	11
39	Second Harmonic Generation in Nematic Liquid Crystals: Effect of Molecular Symmetry, Nonlinear Susceptibility and Phase-Matching. Molecular Crystals and Liquid Crystals, 1981, 71, 137-156.	0.8	10
40	Excitation of nonlinear surface electromagnetic waves in the prism-metal film-nematic liquid crystal system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 118, 254-259.	2.1	10
41	Self-induced oscillations and asymmetry of the light angular spectrum in a dye doped nematic. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 217, 52-58.	2.1	10
42	Bose-Einstein condensation for trapped atomic polaritons in a biconical waveguide cavity. Physical Review A, 2012, 85, .	2.5	10
43	Pulse laser deposition of cluster nanostructures from colloidal single-component systems. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 611-617.	0.6	10
44	Electrical properties of metal cluster structures formed on the surface of dielectrics. Technical Physics Letters, 2014, 40, 529-532.	0.7	10
45	Titanium-Carbide Formation in a Liquid Hydrocarbon Medium by Femtosecond Laser Irradiation. Journal of Surface Investigation, 2018, 12, 1220-1223.	0.5	10
46	Hybrid optical fiber for light-induced superconductivity. Scientific Reports, 2020, 10, 8131.	3.3	10
47	Magnetic control over the zitterbewegung of excitonâ€“polaritons. New Journal of Physics, 2020, 22, 083059.	2.9	10
48	Excitation of coherent polaritons in a two-dimensional atomic lattice. Quantum Electronics, 2009, 39, 685-690.	1.0	9
49	Laser-induced formation of semiconductor nanoparticles and structures. Laser Physics, 2014, 24, 074002.	1.2	9
50	Laser-induced synthesis of nanostructured metalâ€“carbon clusters and complexes. Optical and Quantum Electronics, 2016, 48, 1.	3.3	9
51	Interaction of femtosecond laser radiation with carbon materials: exfoliation of graphene structures and synthesis of low-dimensional carbon structures. Nanosystems: Physics, Chemistry, Mathematics, 2016, , 220-225.	0.4	9
52	Dynamic self-diffraction effects in liquid crystals. IEEE Journal of Quantum Electronics, 1986, 22, 1276-1286.	1.9	8
53	High-temperature Boseâ€”Einstein condensation of polaritons upon intracavity laser pumping of matter. Quantum Electronics, 2006, 36, 532-538.	1.0	8
54	Lasing and high-temperature phase transitions in atomic systems with dressed-state polaritons. Physical Review A, 2013, 88, .	2.5	8

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55	Metal for Plasmonic Ultraviolet Laser: Al or Ag?. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	2.9	8
56	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.	2.7	8
57	Entangled spin states of a Bose condensate in an electromagnetic field. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 94, 50-60.	0.6	7
58	Generation of nonclassical states of light in the Bose-Einstein condensate under electromagnetically induced transparency. JETP Letters, 2004, 80, 739-742.	1.4	7
59	Formation of nanostructures at the glass-carbon surface exposed to laser radiation. Quantum Electronics, 2007, 37, 1051-1054.	1.0	7
60	CW laser-induced generation of periodic ring structures on thin PbSe films. Quantum Electronics, 2011, 41, 441-446.	1.0	7
61	Dissipative optical solitons in dense media with optical pumping. Journal of Experimental and Theoretical Physics, 2012, 115, 1-14.	0.9	7
62	Hyperbolic metamaterials based on Bragg polariton structures. JETP Letters, 2016, 104, 62-67.	1.4	7
63	Investigation of Carbon Structures of Single Crystals Obtained by Laser Synthesis. Journal of Surface Investigation, 2018, 12, 392-394.	0.5	7
64	Topological Laser-Induced Quantum States in Nanocluster Structures: Fundamental Effects and Possible Applications (Electrical and Optical). Optics and Spectroscopy (English Translation of Optika) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	7
65	Field-Induced Assembly of sp-sp2 Carbon Sponges. Nanomaterials, 2021, 11, 763.	4.1	7
66	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.	0.6	6
67	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.	0.4	6
68	Josephson dynamics for coupled polariton modes under the atomâ€“field interaction in the cavity. Applied Physics B: Lasers and Optics, 2007, 89, 81-89.	2.2	6
69	Laser deposition of multiwalled titanium oxide microtubes. Quantum Electronics, 2010, 40, 642-646.	1.0	6
70	Laser Formation of Semiconductor Coatings using Droplet Technology. Physics Procedia, 2012, 39, 401-408.	1.2	6
71	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.	0.6	6
72	Formation of microspheres under the action of femtosecond laser radiation on titanium samples in hydrocarbons. Journal of Physics: Conference Series, 2018, 951, 012015.	0.4	6

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73	The laser-assisted synthesis of linear carbon chains stabilized by noble metal particle. Journal of Physics: Conference Series, 2019, 1164, 012006.	0.4	6
74	Spontaneous symmetry breaking in persistent currents of spinor polaritons. Scientific Reports, 2021, 11, 22382.	3.3	6
75	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.	0.6	5
76	Storage of quantum optical information based on the intracavity polaritons under the Bose-Einstein condensation condition. Laser Physics, 2007, 17, 1432-1440.	1.2	5
77	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.	1.0	5
78	Dissipative laser bullets in dielectric media containing quantum dots. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 119, 497-512.	0.6	5
79	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.	0.6	5
80	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.	0.6	5
81	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.	0.6	5
82	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.	0.6	5
83	Processing materials in the mode of multiple filamentation of femtosecond laser radiation. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1438-1441.	0.6	5
84	Precision formation of PCB topologies by femtosecond laser radiation. Journal of Physics: Conference Series, 2019, 1164, 012018.	0.4	5
85	Giant synthetic gauge field for spinless microcavity polaritons in crossed electric and magnetic fields. New Journal of Physics, 2021, 23, 023024.	2.9	5
86	Polygonal patterns of confined light. Optics Letters, 2021, 46, 1836.	3.3	5
87	Formation of Fractal Dendrites by Laser-Induced Melting of Aluminum Alloys. Nanomaterials, 2021, 11, 1043.	4.1	5
88	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
89	Fabrication of the Ð¡r4+:LiGaSiO4 nano-glassâ€“ceramics. Journal of Crystal Growth, 2011, 328, 95-101.	1.5	4
90	2015 Disastrous Floods in Louisiana, USA, and Assam, India: Groundwater Impact on the Water Balance Estimation. Hydrology, 2016, 3, 41.	3.0	4

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91	Femtosecond laser nanostructuring of a tungsten surface. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1429-1432.	0.6	4
92	Quantum states of the light for dynamic diffraction in the DFB system. Journal of the European Optical Society Part B: Quantum Optics, 1992, 4, 209-220.	1.2	3
93	Quantum nondemolition measurements of the phase and polarization Stokes parameters of optical fields. Journal of Experimental and Theoretical Physics, 1998, 86, 672-681.	0.9	3
94	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.	0.7	3
95	QUANTUM STORAGE AND CLONING OF LIGHT STATES IN EIT-LIKE MEDIUM. International Journal of Modern Physics B, 2006, 20, 1593-1605.	2.0	3
96	Formation of nanostructures at laser ablation under the action of ultrashort laser impulses on a surface of solid states. Physics Procedia, 2010, 5, 213-219.	1.2	3
97	Catastrophic Floods â€“ Possible Contribution of Groundwater due to Flash Reconstruction of the Rock Mass 3D-Cracknet under Seismic Factors. Modern Applied Science, 2015, 9, .	0.6	3
98	Laser-induced synthesis of a nanostructured polymer-like metal-carbon complexes. Proceedings of SPIE, 2016, , .	0.8	3
99	Electrophysics of nanocluster thin-film systems: Achieving superconducting topological states. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1401-1413.	0.6	3
100	Drop deposition of thin nanostructured coatings of lead telluride. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1416-1419.	0.6	3
101	Long linear carbon chainâ€”laser-induced structures and possible applications. Laser Physics, 2019, 29, 085901.	1.2	3
102	Photosensitive free-standing ultra-thin carbyneâ€“gold films. Optical and Quantum Electronics, 2019, 51, 1.	3.3	3
103	Laser synthesis of graphene in liquid nitrogen. IOP Conference Series: Materials Science and Engineering, 2019, 525, 012052.	0.6	3
104	The effect of alloying elements on the interaction of boron carbide with aluminum melt. Non-ferrous Metals, 2021, , 27-33.	0.2	3
105	Light-induced modulated structures, intrinsic optical multistability and instabilities for the competitive wave interactions in liquid crystals. Journal De Physique, 1989, 50, 1393-1415.	1.8	3
106	Optical bistability due to nonlinear resonance in thin surface transition layer of the ATR system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 145, 49-55.	2.1	2
107	Correlation of quantum intensity fluctuations in Raman-Nath diffraction. Quantum Electronics, 1993, 23, 596-604.	1.0	2
108	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 ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td		

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109	Nonlinear Control of the Propagation of Optical Pulses in Doped Optical Fibers. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 604.	0.6	2
110	Quantum computing based on one-photon polarisation states of light pulses propagating in a doped resonance medium. Quantum Electronics, 2007, 37, 1115-1118.	1.0	2
111	Solidification structures on carbon materials surface-melted by repetitive laser pulses. Quantum Electronics, 2009, 39, 333-336.	1.0	2
112	Bright solitons in cavity-QED arrays containing two-level atoms. Journal of Physics: Conference Series, 2012, 393, 012030.	0.4	2
113	On the mechanism of the maintenance of Rabi oscillations in the system of exciton polaritons in a microcavity. JETP Letters, 2016, 103, 51-56.	1.4	2
114	Formation of quasiperiodic bimetal thin films with controlled optical and electrical properties. , 2016, , .		2
115	Laser processing of materials in the multiple filamentation mode. , 2016, , .		2
116	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.	0.6	2
117	Studying the structure and electrical conductivity of thin granulated bimetallic films. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1387-1390.	0.6	2
118	Nanophysics in laser-induced cluster systems: topological quantum states in electrical conductivity and features of optical spectraâ€"theory and experiment for dimensional effects. Optical and Quantum Electronics, 2020, 52, 1.	3.3	2
119	Structure and magnetic properties of Ni-N nanofilms. Functional Materials, 2014, 21, 233-236.	0.1	2
120	Large-aperture compression of picosecond laser pulses and bandwidth-limited radiation arising in a spatially periodic medium: theory and experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 151, 317-324.	2.1	1
121	Stochastic processes in a nonlinear Kerr-like ordered liquid. Applied Physics B: Lasers and Optics, 1994, 59, 565-571.	2.2	1
122	<title>Two-mode simultaneous measurement of the light phase difference and the polarization states for quantum optical field</title>. , 1997, , .		1
123	Transient laser-induced thermochemical processes on metal surfaces and their visualisation with a laser image amplifier. Quantum Electronics, 1998, 28, 326-329.	1.0	1
124	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.	0.9	1
125	Title is missing!. Journal of Russian Laser Research, 2003, 24, 168-179.	0.6	1
126	Laser Doppler diagnostics of the human capillary blood stream system near skin surface. , 0, , .		1

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127	Laser diagnostics of the evolution of a carbon surface exposed to high-power laser pulses. Instruments and Experimental Techniques, 2006, 49, 274-279.	0.5	1
128	Carbon's nanostructures formed in a field of powerful laser radiation. Proceedings of SPIE, 2007, , .	0.8	1
129	Creating micro and nanostructured metal-carbon multilayers and bulky materials at controlled laser action. Physics Procedia, 2010, 5, 221-230.	1.2	1
130	Dynamic amplification and generation of entangled polaritons in doped media. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 113, 305-313.	0.6	1
131	Effects of polariton-polariton scattering and the nonlinear properties of polaritonic crystal. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 657-662.	0.6	1
132	High temperature BEC with photon-like atomic polaritons. European Physical Journal: Special Topics, 2013, 217, 177-181.	2.6	1
133	Laser Nanostructuring of the PbX Thin Films for Creation of the Semiconductor Devices with Controlled Properties. Physics Procedia, 2014, 56, 1115-1125.	1.2	1
134	Dissipative Laser Bullets in a Dielectric Metamaterial with Quantum Dots. Physics Procedia, 2015, 73, 7-14.	1.2	1
135	Atomic Bose-Einstein condensates as nonlinear hyperbolic metamaterials. , 2015, , .		1
136	Metal-carbon nanoclusters for SERS. Journal of Physics: Conference Series, 2017, 784, 012031.	0.4	1
137	The laser-induced synthesis of linear carbon chains. , 2017, , .		1
138	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.	0.6	1
139	Metal-carbyne clusters for SERS realization. Journal of Physics: Conference Series, 2018, 951, 012020.	0.4	1
140	Verification of the quantum dimension effects in electricsl condactivity with different topology of laser-induced thin-film structures. Journal of Physics: Conference Series, 2018, 951, 012018.	0.4	1
141	Colloidal quasicrystal for photonics. Journal of Physics: Conference Series, 2018, 951, 012022.	0.4	1
142	Experimental study of the filaments parameters at the focusing with cylindrical lens. , 2018, , .		1
143	The temperature characteristics of plasma induced by femtosecond laser radiation. EPJ Web of Conferences, 2019, 220, 03034.	0.3	1
144	Formation of entangled polaritons in doped resonant medium. , 1899, 8414, 130.		0

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145	Quantum optics with atomic polaritons. , 1899, 8414, 278.		0
146	<title>Laser-induced phase transitions in liquid crystals and distributed feedback-fluctuations, energy exchange, and instabilities: squeezed polarized states and intensity correlations</title>. , 1991, 1402, 175.		0
147	Zero-angle scattering of light in oriented organic liquids: classical and quantum states for both linear and nonlinear scattering. , 1991, 1403, 326.		0
148	<title>Limiting states of the short laser pulses in a DFB system</title>. , 1992, , .		0
149	Observation of light-induced hydrodynamic instabilities in a nematic liquid crystal for a single-mode laser beam. , 1993, , .		0
150	Laser-induced fluorescence monitoring of vegetation, soils, and minerals for mountain country: ecological aspects of spaceborne image analysis. , 1993, , .		0
151	Photon statistics: classical and quantum fluctuations of scattered light in an optical anisotropic (ordered) liquid. , 1993, , .		0
152	Generation of nonclassical light and quantum nondemolition measurement by optical fibers with a spatially periodic energy exchange between two modes. , 1994, , .		0
153	Optical education for application in science and industry at a technical university: combination of laser physics and technology, electronics engineering and computer sciences. , 1995, , .		0
154	<title>3D structures and laser-induced dynamic self-organization processes in an organic medium with a long-range interaction</title>. , 1995, , .		0
155	<title>Two-mode interactions in DFB systems: polarization-squeezed light and QND measurements</title>. , 1996, 2799, 367.		0
156	<title>Laser-induced instabilities in anisotropic liquids</title>. , 1997, 3093, 339.		0
157	<title>Visualization of the laser treatment processes of materials by a brightness amplifier based on a copper laser</title>. , 1997, , .		0
158	<title>Quantum and classical polarization stochasticity and optical switching in the Stokes parameters of light in a tunnel-coupled optical fiber</title>. , 1997, , .		0
159	<title>QND measurements of the Stokes parameters for optical fields and generation of polarization-squeezed light</title>. , 1997, 3076, 184.		0
160	Quantum Stochasticity in the Stokes Parameters of Light, Polarization, Switching and Procedure of Nondemolition Measurements of Distributed Feedback Systems. Molecular Crystals and Liquid Crystals, 1998, 321, 223-236.	0.3	0
161	<title>Ultrasound Dopplerography of abdomen pathology using statistical computer programs</title>. , 1998, , .		0
162	<title>Blood microcirculation of ischemic pancreatitis</title>. , 1998, 3252, 184.		0

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163	Experimental study of laser-induced hydrodynamical and thermochemical processes by means of a laser brightness amplifier. , 1998, 3403, 270.		0
164	<title>Dynamics of laser thermochemical nitration of a metal surface</title>. , 1999, , .		0
165	<title>Nonclassical interference and quantum computing in mesoscopic systems: information and entropy aspects</title>. , 2001, 4429, 52.		0
166	<title>Laser-induced hydrodynamic waves on the surface of melt</title>. , 2001, , .		0
167	Quantum computing and fundamental limit of self-switching effect for nonlinear spatially inhomogeneous bosonic systems. , 2002, 4750, 85.		0
168	Fractal and dynamic properties of hydrodynamical instabilities on surface substance under laser action. , 2003, , .		0
169	SU(3) polarization states in quantum and atomic optics and high-precision measurements. Doklady Physics, 2004, 49, 154-157.	0.7	0
170	Generation and measurement of SU(3) polarization states for quantum information and computing problems in quantum and atomic optics. , 2005, , .		0
171	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.	0.6	0
172	<title>Laser diagnostics of hydrodynamic processes and spatio-temporal instabilities on the substance surface</title>. , 2007, 6606, 220.		0
173	Generation of nanostructures on a surface of a cold substrate at laser action on carbon materials in atmospheric air. , 2007, , .		0
174	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
175	Nonlinear laser amplifier with a suppressed level of quantum noise on the basis of a Bose condensate for 23Na atoms. Physics of Particles and Nuclei Letters, 2007, 4, 200-203.	0.4	0
176	Generation of polarization-squeezed light in doped resonant media. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	0
177	Phase transition and storage of quantum optical information in spatially periodical atomic structure. Proceedings of SPIE, 2010, , .	0.8	0
178	Laser synthesis of carbon nanofibers and nanoclusters. Nanotechnologies in Russia, 2011, 6, 303-310.	0.7	0
179	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.	1.0	0
180	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.	0.6	0

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181	Optical control of vortices in dense media of gas-filled optical fibers. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1109-1114.	0.6	0
182	Generation of Raman polaritons in three-level atomic media. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 626-633.	0.6	0
183	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
184	High-temperature Bose-Einstein condensation of photonlike atom-light polaritons. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 115, 363-367.	0.6	0
185	Generation of entangled polaritons in doped media. Proceedings of SPIE, 2013, , .	0.8	0
186	The optical control of spatial dissipative solitons in optical fibers filled with a cold atomic gas. , 2013, , .		0
187	Storage of optical information in nano-size cavity arrays under the qubit-light interaction. , 2014, , .		0
188	Laser formation of collodial alloys of the noble nanoparticles and deposition of the microclusters on the glass substrate. , 2014, , .		0
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