

Stella Kutrovskaya

List of Publications by Year in descending order

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76
papers

434
citations

758635

12
h-index

839053

18
g-index

76
all docs

76
docs citations

76
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	The Synthesis of Hybrid Gold-Silicon Nano Particles in a Liquid. Scientific Reports, 2017, 7, 10284.	1.6	32
2	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.	0.2	31
3	Nano-Antennas Based on Silicon-Gold Nanostructures. Scientific Reports, 2019, 9, 338.	1.6	28
4	Excitonic Fine Structure in Emission of Linear Carbon Chains. Nano Letters, 2020, 20, 6502-6509.	4.5	25
5	Laser-induced synthesis of metal-carbon materials for implementing surface-enhanced Raman scattering. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2016, 121, 263-270.	0.2	23
6	Two-stage laser-induced synthesis of linear carbon chains. Quantum Electronics, 2016, 46, 627-633.	0.3	22
7	New advantages and challenges for laser-induced nanostructured cluster materials: functional capability for experimental verification of macroscopic quantum phenomena. Laser Physics, 2014, 24, 074010.	0.6	19
8	CW laser-induced formation of a nanoparticle ensemble with a bimodal size distribution on PbTe films. Quantum Electronics, 2011, 41, 735-737.	0.3	17
9	The crossover between tunnel and hopping conductivity in granulated films of noble metals. Superlattices and Microstructures, 2017, 111, 335-339.	1.4	16
10	One-dimensional Tamm plasmons: Spatial confinement, propagation, and polarization properties. Physical Review B, 2017, 96, .	1.1	16
11	Electric field assisted alignment of monoatomic carbon chains. Scientific Reports, 2020, 10, 9709.	1.6	14
12	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.	0.2	13
13	Laser ablation of carbon targets placed in a liquid. Quantum Electronics, 2015, 45, 731-735.	0.3	13
14	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
15	Cavitation-Free Continuous-Wave Laser Ablation from a Solid Target to Synthesize Low-Size-Dispersed Gold Nanoparticles. ChemPhysChem, 2017, 18, 1185-1191.	1.0	11
16	Electrical properties of metal cluster structures formed on the surface of dielectrics. Technical Physics Letters, 2014, 40, 529-532.	0.2	10
17	Carbon nanotube reinforced corundum-based composite material. Glass and Ceramics (English) Tj ETQq1 1 0.784314 rgBT /Qverlock 10 0.2 9	0.2	9
18	Laser-induced formation of semiconductor nanoparticles and structures. Laser Physics, 2014, 24, 074002.	0.6	9

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19	Laser-induced synthesis of nanostructured metal-carbon clusters and complexes. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	9
20	Structure and Morphology Effects on the Optical Properties of Bimetallic Nanoparticle Films Laser Deposited on a Glass Substrate. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	1.5	8
21	Nanocomposite Metamaterials Based on Self-assembled Titanium Dioxide Rolls with Embedded Gold Nanoparticles. <i>Scientific Reports</i> , 2019, 9, 7023.	1.6	8
22	Formation of nanostructures at the glass-carbon surface exposed to laser radiation. <i>Quantum Electronics</i> , 2007, 37, 1051-1054.	0.3	7
23	CW laser-induced generation of periodic ring structures on thin PbSe films. <i>Quantum Electronics</i> , 2011, 41, 441-446.	0.3	7
24	Field-Induced Assembly of sp-sp ² Carbon Sponges. <i>Nanomaterials</i> , 2021, 11, 763.	1.9	7
25	Laser deposition of multiwalled titanium oxide microtubes. <i>Quantum Electronics</i> , 2010, 40, 642-646.	0.3	6
26	Laser Formation of Semiconductor Coatings using Droplet Technology. <i>Physics Procedia</i> , 2012, 39, 401-408.	1.2	6
27	Optical properties of multilayer bimetallic films obtained by laser deposition of colloidal particles. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016, 121, 765-768.	0.2	6
28	Formation of carbon submicron structures and nanostructures on the surface of cold substrates exposed to laser radiation in air. <i>Quantum Electronics</i> , 2008, 38, 73-76.	0.3	5
29	Progress in the Design of New Photonics and Optoelectronics Elements Using Advantages of Contemporary Femto-Nanophotonics. <i>Journal of Russian Laser Research</i> , 2016, 37, 494-506.	0.3	5
30	Exciton energy spectra in polyyne chains. <i>Physical Review Research</i> , 2021, 3, .	1.3	5
31	Formation of Fractal Dendrites by Laser-Induced Melting of Aluminum Alloys. <i>Nanomaterials</i> , 2021, 11, 1043.	1.9	5
32	Laser-induced synthesis of a nanostructured polymer-like metal-carbon complexes. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
33	Effect of the procedure for preparing porous membranes based on interpolyelectrolyte complexes on their structure, surface morphology, and surface electrical properties. <i>Russian Journal of Applied Chemistry</i> , 2016, 89, 271-279.	0.1	3
34	Stimulated absorption of light in bosonic cascades of excitons. <i>Superlattices and Microstructures</i> , 2017, 109, 454-456.	1.4	3
35	Photosensitive free-standing ultra-thin carbon-gold films. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	3
36	Solidification structures on carbon materials surface-melted by repetitive laser pulses. <i>Quantum Electronics</i> , 2009, 39, 333-336.	0.3	2

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37	Formation of quasiperiodic bimetal thin films with controlled optical and electrical properties. , 2016, , .		2
38	Terahertz transitions in finite carbon chains. Physical Review Research, 2021, 3, .	1.3	2
39	Carbon's nanostructures formed in a field of powerful laser radiation. Proceedings of SPIE, 2007, , .	0.8	1
40	Specific features of plasma etching of helical PbTe structures on BaF ₂ (111) substrates. Physics of the Solid State, 2009, 51, 1919-1922.	0.2	1
41	Creating micro and nanostructured metal-carbon multilayers and bulky materials at controlled laser action. Physics Procedia, 2010, 5, 221-230.	1.2	1
42	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
43	Metal-carbon nanoclusters for SERS. Journal of Physics: Conference Series, 2017, 784, 012031.	0.3	1
44	Atomic-force lithography for photonic applications. , 2017, , .		1
45	The laser-induced synthesis of linear carbon chains. , 2017, , .		1
46	Metal-carbyne clusters for SERS realization. Journal of Physics: Conference Series, 2018, 951, 012020.	0.3	1
47	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
48	Colloidal quasicrystal for photonics. Journal of Physics: Conference Series, 2018, 951, 012022.	0.3	1
49	Hybrid gold-silicon systems with tuning optical properties. Journal of Physics: Conference Series, 2019, 1164, 012012.	0.3	1
50	Exciton radiative lifetime in a monoatomic carbon chain. New Journal of Physics, 2021, 23, 033007.	1.2	1
51	Generation of nanostructures on a surface of a cold substrate at laser action on carbon materials in atmospheric air. , 2007, , .		0
52	Laser formation of colloidal alloys of the noble nanoparticles and deposition of the microclusters on the glass substrate. , 2014, , .		0
53	Quantum Domains for Macroscopic Transport Effects in Nanostructures with Control Topology: Optics and e-Conductivity. EPJ Web of Conferences, 2015, 103, 03001.	0.1	0
54	Laser-assisted deposition of the bimetal thin films with pre-difined optical and electrical properties. , 2016, , .		0

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55	Laser formation of the metal-carbon islands thin films for optical application. , 2016, , .		0
56	The obtaining and deposition of silicon nanoparticles: Size control, luminescence in visible spectra. , 2016, , .		0
57	Laser ablative nanostructuring of Au in liquid ambience in continuous wave illumination regime. Proceedings of SPIE, 2016, , .	0.8	0
58	Tunnel/jump electroconductivity in the laser-induced nanocluster structures with controlled topology. Optical and Quantum Electronics, 2017, 49, 1.	1.5	0
59	The synthesis of resonant gold-silicon NPs in liquid. AIP Conference Proceedings, 2017, , .	0.3	0
60	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
61	The CW-laser ablation of resonant silicon NPs in liquid. , 2017, , .		0
62	The topological electroconductivity control in the semiconductor/metal/carbon unit by laser-induced nanogranular structures. , 2017, , .		0
63	The colloidal systems on semiconductor nanoparticles. , 2017, , .		0
64	Metal-carbyne clusters for SERS realization. , 2017, , .		0
65	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
66	Laser synthesis of hybrids Si-Au complex. Journal of Physics: Conference Series, 2018, 951, 012023.	0.3	0
67	AFM lithography for Tamm plasmons observation. Journal of Physics: Conference Series, 2018, 951, 012021.	0.3	0
68	Laser synthesis of a hybrid gold-silicon clusters with variable optical properties. , 2018, , .		0
69	New metal-carbon composite materials for nanophotonics. , 2018, , .		0
70	The Laser-Assisted Synthesis of Linear Carbon Chains Stabilized by Noble Metal Particles. , 2018, , .		0
71	Titanium nanotubes doped NPs of noble metals. , 2018, , .		0
72	Colloidal quasicrystals based on hybrid nanoparticles. Journal of Physics: Conference Series, 2019, 1189, 012014.	0.3	0

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73	Metamaterials based on titanium dioxide rolls. Journal of Physics: Conference Series, 2019, 1164, 012013.	0.3	0
74	The method of electro-induced lithography for Tamm plasmon observation. Journal of Physics: Conference Series, 2019, 1164, 012011.	0.3	0
75	New challenges of femto-nanophotonics: basic principles and possible applications. Journal of Physics: Conference Series, 2019, 1164, 012016.	0.3	0
76	The modeling of the light sensitive titanium dioxide microrolls doped by noble metal nanoparticles. Journal of Physics: Conference Series, 2019, 1331, 012024.	0.3	0