

Nikita A Toropov

List of Publications by Year in descending order

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56
papers

560
citations

932766

10
h-index

676716

22
g-index

56
all docs

56
docs citations

56
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of biosensing with whispering-gallery mode lasers. <i>Light: Science and Applications</i> , 2021, 10, 42.	7.7	164
2	Boosting Terahertz Photoconductive Antenna Performance with Optimised Plasmonic Nanostructures. <i>Scientific Reports</i> , 2018, 8, 6624.	1.6	69
3	Permanent matching of coupled optical bottle resonators with better than 0.16% GHz precision. <i>Optics Letters</i> , 2016, 41, 2278.	1.7	34
4	Aggregation of Cyanine Dye Molecules in the Near Fields of Plasmonic Nanoparticles Excited by Pulsed Laser Irradiation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18010-18014.	1.5	26
5	SARS-CoV-2 Tests: Bridging the Gap between Laboratory Sensors and Clinical Applications. <i>ACS Sensors</i> , 2021, 6, 2815-2837.	4.0	24
6	Noble Metal Nanoparticles: Synthesis and Optical Properties. , 2019, , 61-88.		22
7	SNAP microresonators introduced by strong bending of optical fibers. <i>Optics Letters</i> , 2019, 44, 3218.	1.7	22
8	Whispering-gallery microlasers for cell tagging and barcoding: the prospects for in vivo biosensing. <i>Light: Science and Applications</i> , 2021, 10, 77.	7.7	20
9	Influence of Silver Nanoparticles Crystallinity on Localized Surface Plasmons Dephasing Times. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700174.	0.7	14
10	Mutual modification of silver-nanoparticle plasmon resonances and the absorptive properties of polymethine-dye molecular layers on a sapphire surface. <i>Optics and Spectroscopy (English Translation)</i> Tj ETQq0 0 0.2 BT / Overlock 10 T	0.7	14
11	Granular metal films on the surfaces of transparent dielectric materials studied and modified via optical means. <i>Proceedings of SPIE</i> , 1899, 8414, 43.	0.8	10
12	Correlation between structural, optical, and electrical properties of self-assembled plasmonic nanostructures on the GaAs surface. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	10
13	Fabrication and laser-assisted modification of the Ag particles ensembles supporting quadrupole plasmon oscillations. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	10
14	Plasmon-assisted aggregation and spectral modification of the layered rhodamine 6G molecules. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	9
15	Thin films of organic dyes with silver nanoparticles: enhancement and spectral shifting of fluorescence due to excitation of localised surface plasmons. <i>International Journal of Nanotechnology</i> , 2016, 13, 642.	0.1	9
16	Microresonator devices lithographically introduced at the optical fiber surface. <i>Optics Letters</i> , 2021, 46, 1784.	1.7	9
17	Absorption and photoluminescence of epitaxial quantum dots in the near field of silver nanostructures. <i>Journal of Optical Technology (A Translation of Opticheskiy Zhurnal)</i> , 2017, 84, 459.	0.2	9
18	Four-port SNAP microresonator device. <i>Optics Letters</i> , 2019, 44, 3498.	1.7	9

#	ARTICLE	IF	CITATIONS
19	Rectangular SNAP microresonator fabricated with a femtosecond laser. Optics Letters, 2019, 44, 5606.	1.7	9
20	Enhancement of Raman scattering of a gaseous medium near the surface of a silver holographic grating. Optics Letters, 2017, 42, 4728.	1.7	7
21	Enhancement of Fluorescence and Raman Scattering in Cyanine-Dye Molecules on the Surface of Silicon-Coated Silver Nanoparticles. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314rgBT /Overlock 10	0.2	6
22	Optical Properties of Planar Nanostructures Based on Semiconductor Quantum Dots and Plasmonic Metal Nanoparticles. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 120, 477-481.	0.2	6
23	Optical properties and photoinduced aggregation of cyanine dyes on silver island films. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2017, 84, 453.	0.2	6
24	Epitaxial InGaAs Quantum Dots in Al _{0.29} Ga _{0.71} As Matrix: Intensity and Kinetics of Luminescence in the Near Field of Silver Nanoparticles. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 f 50 537 T	0.2	6
25	Direct enhancement of luminescence of Cd _x Zn _{1-x} Se _{1-y} /ZnS nanocrystals with gradient chemical composition by plasmonic nanoantennas. Optics and Laser Technology, 2020, 121, 105821.	2.2	5
26	Polarized Stimulated Emission of 2D Ensembles of Plasmonic Nanolasers. Advanced Photonics Research, 2021, 2, 2000083.	1.7	5
27	Transient reconfigurable subangstrom-precise photonic circuits at the optical fiber surface. , 2015, , .		4
28	Optical properties of semiconductor CdSe/ZnS quantum dots in the near field of silver nanoparticles. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 290-293.	0.2	3
29	The optical properties of thin films of cyan dyes with silver nanoparticles and how they change when they are photostimulated. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2014, 81, 285.	0.2	2
30	Fabrication of Silicon Nanostructures for Application in Photonics. Semiconductors, 2018, 52, 632-635.	0.2	2
31	The Effect of Localized Plasmons in Silver and Gold Thin Films on the Optical Properties of Organic Dyes in an Acrylate Polymer Matrix. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314rgBT /Overlock 10	0.2	2
32	Novel Optimized Hybrid Terahertz Photoconductive Antennas. Journal of Physics: Conference Series, 2018, 1092, 012076.	0.3	2
33	Chemically Synthesized Gold and Silver Particles Absorbing in the Near-IR Spectral Range. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 124, 703-706.	0.2	2
34	Fabrication and characterization of coupled ensembles of epitaxial quantum dots and metal nanoparticles supporting localized surface plasmons. , 2017, , .		2
35	Equilibrium component composition and structure of nanometer cyanine dye layers and their photoinduced modification. , 2012, , .		1
36	Using localized surface plasmons to modify the optical properties and conformational rearrangements of organic dye molecules. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1306-1309.	0.1	1

#	ARTICLE	IF	CITATIONS
37	Optical properties of silver nanoparticles coated by cyanine dyes molecular overlayers. , 2013, , .		1
38	Organic-inorganic planar hybrid materials for spasers. Proceedings of SPIE, 2015, , .	0.8	1
39	An anomalous change in the frequency of plasmon resonances of island metal films upon their contact with some polar organic media. Optics and Spectroscopy (English Translation of Optika i Tj ETQq1 1 0.784314 rgBT1/Overloc		
40	Enhanced fluorescence and aggregation of rhodamine molecules dispersed in a thin polymer film in the presence of plasmonic nanostructures. , 2016, , .		1
41	Fabrication and characterization of the noble metal nanostructures on the GaAs surface. , 2016, , .		1
42	Spasers monolayer based on silver nanoparticles. , 2018, , .		1
43	Optical properties of hybrid film depending on overlap of the nanoparticle plasmon resonance and J-aggregate band of cyanine dye. , 2020, , .		1
44	Photoinduced modification of component composition of molecular layers with silver nanoparticles. , 2013, , .		0
45	Photoluminescence of the polymer/dye composites with different geometry in the near fields of Ag nanostructures. , 2014, , .		0
46	Self-organization and photo-induced formation of cyanine dye aggregates on the plasmonic Ag nanoparticles. , 2016, , .		0
47	Miniature optical delay lines and buffers. , 2016, , .		0
48	Luminescence kinetics of the radiative transitions in quantum dots CdSe/ZnS in the near field of plasmonic nanoparticles. , 2016, , .		0
49	Optimization of Nanoantenna-Enhanced Terahertz Emission from Photoconductive Antennas. Journal of Physics: Conference Series, 2017, 917, 062060.	0.3	0
50	SNAP Resonators Introduced by Bending of Optical Fibers. , 2018, , .		0
51	Voltage controlled anisotropy of chemically synthesized silver nanorods ensembles intended for near IR applications. , 2018, , .		0
52	Monolayer of Plasmonic Nanolaser: a Study of Spasing Regime and Polarization Characteristics. , 2019, , .		0
53	Surface nanoscale axial photonics structures introduced by bending of optical fibers. , 2018, , .		0
54	Chemically synthesized silver nanorods intended for near IR applications. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Resonant and non-resonant interaction of semiconductor quantum dots with plasmons localized in silver and zinc nanoparticles. , 2019, , .		0
56	Whispering Gallery Resonators Introduced by Wet Chemical Etching at the Optical Fiber Surface. , 2020, , .		0