Dmitry A Zuev

List of Publications by Year
in descending order

92	1,755	361296 20	276775 41
papers	citations	h-index	g-index

92	92	92	2201
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	All-dielectric nanophotonics: the quest for better materials and fabrication techniques. Optica, 2017, 4, 814.	4.8	328
2	Lightâ€Induced Tuning and Reconfiguration of Nanophotonic Structures. Laser and Photonics Reviews, 2017, 11, 1700108.	4.4	158
3	Efficient Second-Harmonic Generation in Nanocrystalline Silicon Nanoparticles. Nano Letters, 2017, 17, 3047-3053.	4.5	150
4	Light-Emitting Halide Perovskite Nanoantennas. Nano Letters, 2018, 18, 1185-1190.	4.5	132
5	Resonant Nonplasmonic Nanoparticles for Efficient Temperature-Feedback Optical Heating. Nano Letters, 2017, 17, 2945-2952.	4.5	118
6	Fabrication of Hybrid Nanostructures via Nanoscale Laserâ€Induced Reshaping for Advanced Light Manipulation. Advanced Materials, 2016, 28, 3087-3093.	11.1	107
7	Controllable femtosecond laserâ€induced dewetting for plasmonic applications. Laser and Photonics Reviews, 2016, 10, 91-99.	4.4	66
8	Lightâ€Emitting Nanophotonic Designs Enabled by Ultrafast Laser Processing of Halide Perovskites. Small, 2020, 16, e2000410.	5.2	60
9	Nanoscale Generation of White Light for Ultrabroadband Nanospectroscopy. Nano Letters, 2018, 18, 535-539.	4.5	52
10	Dewetting mechanisms and their exploitation for the large-scale fabrication of advanced nanophotonic systems. International Materials Reviews, 2019, 64, 439-477.	9.4	50
11	Metalâ€Dielectric Nanocavity for Realâ€Time Tracing Molecular Events with Temperature Feedback. Laser and Photonics Reviews, 2018, 12, 1700227.	4.4	45
12	Optically responsive delivery platforms: from the design considerations to biomedical applications. Nanophotonics, 2020, 9, 39-74.	2.9	45
13	Purcell effect in active diamond nanoantennas. Nanoscale, 2018, 10, 8721-8727.	2.8	38
14	Luminescent Erbiumâ€Doped Silicon Thin Films for Advanced Antiâ€Counterfeit Labels. Advanced Materials, 2021, 33, e2005886.	11.1	35
15	Plasmonic nanosponges filled with silicon for enhanced white light emission. Nanoscale, 2020, 12, 1013-1021.	2.8	32
16	Fine-Tuning of the Magnetic Fano Resonance in Hybrid Oligomers via fs-Laser-Induced Reshaping. ACS Photonics, 2017, 4, 536-543.	3.2	28
17	Femtomolar Biodetection by a Compact Coreâ€“Shell 3D Chiral Metamaterial. Nano Letters, 2021, 21, 6179-6187.	4.5	26
18	Printed Nanochainâ€Based Colorimetric Assay for Quantitative Virus Detection. Angewandte Chemie - International Edition, 2021, 60, 24234-24240.	7.2	26

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19	Fabrication of black multicrystalline silicon surface by nanosecond laser ablation. Applied Physics B: Lasers and Optics, 2011, 105, 545-550.	1.1	24
20	Pulsed laser deposition of ITO thin films and their characteristics. Semiconductors, 2012, 46, 410-413.	0.2	22
21	Two-dimensional heterostructures based on ZnO. Applied Physics B: Lasers and Optics, 2011, 105, 565-572.	1.1	15
22	Metal-dielectric nanoantenna for radiation control of a single-photon emitter. Optical Materials Express, 2020, 10, 29.	1.6	15
23	3D Chiral MetaCrystals. Advanced Functional Materials, 2022, 32, 2109258.	7.8	14
24	Reconfigurable Nearâ€field Enhancement with Hybrid Metalâ€Dielectric Oligomers. Laser and Photonics Reviews, 2019, 13, 1800274.	4.4	12
25	Pulsed laser deposition of conductive indium tin oxide thin films. Inorganic Materials, 2012, 48, 1020-1025.	0.2	11
26	Ternary alloys Cd y Zn1 â^' y O and Mg x Zn1 â^' x O as materials for optoelectronics. Physics of the Solid State, 2011, 53, 467-471.	0.2	10
27	The conformation of bovine serum albumin adsorbed to the surface of single allâ€dielectric nanoparticles following lightâ€induced heating. Journal of Biophotonics, 2018, 11, e201700322.	1.1	10
28	Real-Time Temperature Monitoring of Photoinduced Cargo Release inside Living Cells Using Hybrid Capsules Decorated with Gold Nanoparticles and Fluorescent Nanodiamonds. ACS Applied Materials & Interfaces, 2021, 13, 36737-36746.	4.0	10
29	Optically Reconfigurable Spherical Geâ€Sbâ€Te Nanoparticles with Reversible Switching. Laser and Photonics Reviews, 2022, 16, .	4.4	10
30	Approach for fineâ€tuning of hybrid dimer antennas via laser melting at the nanoscale. Annalen Der Physik, 2017, 529, 1600272.	0.9	9
31	Spontaneous Light Emission Assisted by Mie Resonances in Diamond Nanoparticles. Nano Letters, 2021, 21, 10127-10132.	4.5	9
32	Room-temperature stimulated emission in two-dimensional Mg_xZn_{1â^'x}O/ZnO heterostructures under optical pumping. Laser Physics Letters, 2013, 10, 055902.	0.6	8
33	Properties of Zn1 â^' x Co x O films produced by pulsed laser deposition with fast particle separation. Semiconductors, 2014, 48, 538-544.	0.2	8
34	Ion energy spectrum control in modified cross-beam pulsed laser deposition method. Technical Physics Letters, 2011, 37, 69-71.	0.2	7
35	Printed Nanochainâ€Based Colorimetric Assay for Quantitative Virus Detection. Angewandte Chemie, 2021, 133, 24436-24442.	1.6	7
36	Circular Subwavelength Photodetectors for 3D Space Exploration. Advanced Optical Materials, 2022, 10, .	3.6	7

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37	Electroluminescence of ZnO-based semiconductor heterostructures. Quantum Electronics, 2011, 41, 4-7.	0.3	6
38	Laser post-processing of halide perovskites for enhanced photoluminescence and absorbance. Journal of Physics: Conference Series, 2017, 917, 062002.	0.3	6
39	Laser printing of Au/Si core-shell nanoparticles. Journal of Physics: Conference Series, 2016, 741, 012119.	0.3	4
40	Transport properties of thin SnO2âŒ©SbâŒª films grown by pulsed laser deposition. Inorganic Materials, 2013, 49, 1123-1126.	0.2	3
41	Modeling of formation mechanism and optical properties of Si/Au core-shell nanoparticles. , 2016, , .		3
42	Nonlinear optical properties of Sponge Si/Au nanoparticle. Journal of Physics: Conference Series, 2020, 1461, 012081.	0.3	3
43	Femtosecond Laser Fabrication of Hybrid Metal-Dielectric Structures with Nonlinear Photoluminescence. Photonics, 2021, 8, 121.	0.9	3
44	Femtosecond Laser-Assisted Formation of Hybrid Nanoparticles from Bi-Layer Goldâ€“Silicon Films for Microscale White-Light Source. Nanomaterials, 2022, 12, 1756.	1.9	3
45	Quantum efficiency increasing and lasing in the quantum wells based on ZnO. , 2010, , .		2
46	Formation of low-reflection multicrystalline silicon surface by laser-induced structuring for application on silicon solar cells. Proceedings of SPIE, 2010, , .	0.8	2
47	Optical tuning of near and far fields form hybrid dimer nanoantennas via laser-induced melting. Journal of Physics: Conference Series, 2016, 741, 012152.	0.3	2
48	Nano-architecture of metal-organic frameworks. AIP Conference Proceedings, 2017, , .	0.3	2
49	Formation of Luminescent Structures in Thin a-Si:Hâ€“Er Films Irradiated by Femtosecond Laser Pulses. JETP Letters, 2021, 114, 681-686.	0.4	2
50	Modified crossed-beam PLD method for the control of ion energy spectrum. Laser Physics, 2011, 21, 619-623.	0.6	1
51	Optical pumped stimulated emission in ZnO-based quantum wells grown by PLD. , 2012, , .		1
52	Manipulating Fano resonance via fs-laser melting of hybrid oligomers at nanoscale. Journal of Physics: Conference Series, 2016, 741, 012140.	0.3	1
53	Fabrication of spherical GeSbTe nanoparticles by laser printing technique. Journal of Physics: Conference Series, 2017, 917, 062017.	0.3	1
54	Reconfigurable c-Si/Au hybrid nanoantenna. AIP Conference Proceedings, 2017, , .	0.3	1

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55	Light induced heating of Ge nanoparticle covered by BSA. Journal of Physics: Conference Series, 2018, 1092, 012089.	0.3	1
56	Laser annealing process for the tuning of the hybrid-sponge nanostructure photoluminescence. AIP Conference Proceedings, 2020, , .	0.3	1
57	A Coloration Biochip for Optical Virus Detection Based on Printed Single Nanoparticle Array. Advanced Materials Interfaces, 2022, 9, .	1.9	1
58	Hybrid Resonant Metal-dielectic Nanostructures for Local Color Generation. JETP Letters, 0, , 1.	0.4	1
59	Hierarchical Hexagonal Boron Nitride Nanowall-Decorated Silicon Nanoparticles for Tunable Ink-Free Coloring. ACS Applied Nano Materials, 2022, 5, 6106-6114.	2.4	1
60	Application of lasers in solar cell technologies. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1119-1122.	0.1	0
61	Raman scattering governed by dark resonant modes in silicon nanoparticles. , 2016, , .		0
62	Tuning of hybrid oligomers via femtosecond laser reshaping at nanoscale. , 2016, , .		0
63	Reversible and non-reversible tuning of hybrid optical nanoresonators. , 2016, , .		0
64	Tuning of hybrid nanostructures via fs-laser reshaping at nanoscale. , 2016, , .		0
65	Second harmonic splitting in silicon nanoparticles under ultrashot-pulse excitation. AIP Conference Proceedings, 2017, , .	0.3	0
66	Gap size impact on metal-dielectric nanocavity heater properties. AIP Conference Proceedings, 2017, , .	0.3	0
67	Resonant halide perovskite nanoparticles. AIP Conference Proceedings, 2017, , .	0.3	0
68	Enhancement of second harmonic generation in chiral metal-organic frameworks with silicon nanoparticles. AIP Conference Proceedings, 2017, , .	0.3	0
69	Resonant optical properties of crystalline silicon nanoparticles fabricated by laser ablation-based methods. AIP Conference Proceedings, 2017, , .	0.3	0
70	Optical properties of GST nanoparticles fabricated by laser printing technique. AIP Conference Proceedings, 2017, , .	0.3	0
71	Effect of dipole orientation on Purcell factor for the quantum emitter near silicon nanoparticle. AIP Conference Proceedings, 2017, , .	0.3	0
72	Laser deposition of resonant silicon nanoparticles on perovskite for photoluminescence enhancement. Journal of Physics: Conference Series, 2017, 929, 012053.	0.3	0

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73	Control of luminescence in resonant nanodiamonds with NV-centers. , 2017, , .		0
74	Nanoscale optical high-temperature sensor. , 2017, , .		0
75	Experimental demonstration of a reconfigurable magnetic Fano resonance in hybrid oligomers. , 2017, , .		0
76	Purcell factor enhancement by dielectric nanoantennas for nanodiamonds with NV-centers. , 2017, , .		0
77	Highly efficient optical heating of non-plasmonic nananoparticles. , 2017, , .		0
78	Multifunctional sensing with hybrid nanophotonic structures. , 2017, , .		0
79	Zero phonon line enhancement by Mie-type resonances of nanodiamonds with nitrogen-vacancy centers. , 2017, , .		0
80	Approach for fine-tuning of hybrid dimer nanoantennas via laser melting. , 2017, , .		0
81	Hybrid nanocavity for molecular sensing. , 2017, , .		0
82	Nanocrystalline resonant silicon nanoparticle for highly efficient second harmonic generation. , 2017, , .		0
83	Numerical design of Au/Si core-shell nanoparticles. Journal of Physics: Conference Series, 2018, 1092, 012074.	0.3	0
84	Numerical study of optical properties of sphere-gap-cone hybrid nanoantenna. Journal of Physics: Conference Series, 2018, 1124, 051013.	0.3	0
85	Increase of the Zero-Phonon-Line Emission from Color Centers in Nanodiamonds by Coupling with Dielectric Nanocavity. Semiconductors, 2019, 53, 1942-1945.	0.2	0
86	Polarized laser reshaping and near-field-enhanced applications in hybrid nanostructures. , 2019, , .		0
87	Tuning of far-field and near-field via fs-laser in various hybrid oligomers. Journal of Physics: Conference Series, 2020, 1461, 012172.	0.3	0
88	Numerical modelling of scattering properties of tunable hybrid nanostructures. AIP Conference Proceedings, 2020, , .	0.3	0
89	Laser-induced periodic surface structures with broadband photoluminescence signal. AIP Conference Proceedings, 2020, , .	0.3	0
90	Fabrication of metal-dielectric nanoparticles from a bi-layer gold-silicon film by femtosecond laser-induced dewetting. Journal of Physics: Conference Series, 2021, 2015, 012071.	0.3	0

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91	Up-conversion photoluminescence specificity of a hybrid sponge nanostructures. Journal of Physics: Conference Series, 2021, 2015, 012082.	0.3	0
92	Dielectric metasurface for emission control of magnetic dipole in the near-IR wavelength range. Journal of Physics: Conference Series, 2021, 2015, 012165.	0.3	0