

Dmitry A Zuev

List of Publications by Year in descending order

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92
papers

1,755
citations

361296

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276775

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92
all docs

92
docs citations

92
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Chiral MetaCrystals. <i>Advanced Functional Materials</i> , 2022, 32, 2109258.	7.8	14
2	Circular Subwavelength Photodetectors for 3D Space Exploration. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	7
3	A Coloration Biochip for Optical Virus Detection Based on Printed Single Nanoparticle Array. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	1
4	Optically Reconfigurable Spherical GeSbTe Nanoparticles with Reversible Switching. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	10
5	Hierarchical Hexagonal Boron Nitride Nanowall-Decorated Silicon Nanoparticles for Tunable Ink-Free Coloring. <i>ACS Applied Nano Materials</i> , 2022, 5, 6106-6114.	2.4	1
6	Femtosecond Laser-Assisted Formation of Hybrid Nanoparticles from Bi-Layer Gold-Silicon Films for Microscale White-Light Source. <i>Nanomaterials</i> , 2022, 12, 1756.	1.9	3
7	Luminescent Erbium-Doped Silicon Thin Films for Advanced Anti-Counterfeit Labels. <i>Advanced Materials</i> , 2021, 33, e2005886.	11.1	35
8	Femtosecond Laser Fabrication of Hybrid Metal-Dielectric Structures with Nonlinear Photoluminescence. <i>Photonics</i> , 2021, 8, 121.	0.9	3
9	Real-Time Temperature Monitoring of Photoinduced Cargo Release inside Living Cells Using Hybrid Capsules Decorated with Gold Nanoparticles and Fluorescent Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36737-36746.	4.0	10
10	Femtomolar Biodetection by a Compact Core-Shell 3D Chiral Metamaterial. <i>Nano Letters</i> , 2021, 21, 6179-6187.	4.5	26
11	Printed Nanochain-Based Colorimetric Assay for Quantitative Virus Detection. <i>Angewandte Chemie</i> , 2021, 133, 24436-24442.	1.6	7
12	Printed Nanochain-Based Colorimetric Assay for Quantitative Virus Detection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24234-24240.	7.2	26
13	Spontaneous Light Emission Assisted by Mie Resonances in Diamond Nanoparticles. <i>Nano Letters</i> , 2021, 21, 10127-10132.	4.5	9
14	Fabrication of metal-dielectric nanoparticles from a bi-layer gold-silicon film by femtosecond laser-induced dewetting. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012071.	0.3	0
15	Up-conversion photoluminescence specificity of a hybrid sponge nanostructures. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012082.	0.3	0
16	Dielectric metasurface for emission control of magnetic dipole in the near-IR wavelength range. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012165.	0.3	0
17	Formation of Luminescent Structures in Thin a-Si:H:Er Films Irradiated by Femtosecond Laser Pulses. <i>JETP Letters</i> , 2021, 114, 681-686.	0.4	2
18	Optically responsive delivery platforms: from the design considerations to biomedical applications. <i>Nanophotonics</i> , 2020, 9, 39-74.	2.9	45

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19	Plasmonic nanospheres filled with silicon for enhanced white light emission. <i>Nanoscale</i> , 2020, 12, 1013-1021.	2.8	32
20	Nonlinear optical properties of Sponge Si/Au nanoparticle. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012081.	0.3	3
21	Light-Emitting Nanophotonic Designs Enabled by Ultrafast Laser Processing of Halide Perovskites. <i>Small</i> , 2020, 16, e2000410.	5.2	60
22	Metal-dielectric nanoantenna for radiation control of a single-photon emitter. <i>Optical Materials Express</i> , 2020, 10, 29.	1.6	15
23	Tuning of far-field and near-field via fs-laser in various hybrid oligomers. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012172.	0.3	0
24	Numerical modelling of scattering properties of tunable hybrid nanostructures. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
25	Laser annealing process for the tuning of the hybrid-sponge nanostructure photoluminescence. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
26	Laser-induced periodic surface structures with broadband photoluminescence signal. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
27	Increase of the Zero-Phonon-Line Emission from Color Centers in Nanodiamonds by Coupling with Dielectric Nanocavity. <i>Semiconductors</i> , 2019, 53, 1942-1945.	0.2	0
28	Dewetting mechanisms and their exploitation for the large-scale fabrication of advanced nanophotonic systems. <i>International Materials Reviews</i> , 2019, 64, 439-477.	9.4	50
29	Reconfigurable Near-field Enhancement with Hybrid Metal-Dielectric Oligomers. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800274.	4.4	12
30	Polarized laser reshaping and near-field-enhanced applications in hybrid nanostructures. , 2019, , .		0
31	The conformation of bovine serum albumin adsorbed to the surface of single all-dielectric nanoparticles following light-induced heating. <i>Journal of Biophotonics</i> , 2018, 11, e201700322.	1.1	10
32	Purcell effect in active diamond nanoantennas. <i>Nanoscale</i> , 2018, 10, 8721-8727.	2.8	38
33	Light-Emitting Halide Perovskite Nanoantennas. <i>Nano Letters</i> , 2018, 18, 1185-1190.	4.5	132
34	Nanoscale Generation of White Light for Ultrabroadband Nanospectroscopy. <i>Nano Letters</i> , 2018, 18, 535-539.	4.5	52
35	Metal-Dielectric Nanocavity for Real-Time Tracing Molecular Events with Temperature Feedback. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700227.	4.4	45
36	Numerical design of Au/Si core-shell nanoparticles. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012074.	0.3	0

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37	Light induced heating of Ge nanoparticle covered by BSA. Journal of Physics: Conference Series, 2018, 1092, 012089.	0.3	1
38	Numerical study of optical properties of sphere-gap-cone hybrid nanoantenna. Journal of Physics: Conference Series, 2018, 1124, 051013.	0.3	0
39	Fine-Tuning of the Magnetic Fano Resonance in Hybrid Oligomers via fs-Laser-Induced Reshaping. ACS Photonics, 2017, 4, 536-543.	3.2	28
40	Resonant Nonplasmonic Nanoparticles for Efficient Temperature-Feedback Optical Heating. Nano Letters, 2017, 17, 2945-2952.	4.5	118
41	Efficient Second-Harmonic Generation in Nanocrystalline Silicon Nanoparticles. Nano Letters, 2017, 17, 3047-3053.	4.5	150
42	Approach for fine-tuning of hybrid dimer antennas via laser melting at the nanoscale. Annalen Der Physik, 2017, 529, 1600272.	0.9	9
43	Second harmonic splitting in silicon nanoparticles under ultrashort-pulse excitation. AIP Conference Proceedings, 2017, , .	0.3	0
44	Light-Induced Tuning and Reconfiguration of Nanophotonic Structures. Laser and Photonics Reviews, 2017, 11, 1700108.	4.4	158
45	Gap size impact on metal-dielectric nanocavity heater properties. AIP Conference Proceedings, 2017, , .	0.3	0
46	Resonant halide perovskite nanoparticles. AIP Conference Proceedings, 2017, , .	0.3	0
47	Enhancement of second harmonic generation in chiral metal-organic frameworks with silicon nanoparticles. AIP Conference Proceedings, 2017, , .	0.3	0
48	Resonant optical properties of crystalline silicon nanoparticles fabricated by laser ablation-based methods. AIP Conference Proceedings, 2017, , .	0.3	0
49	Optical properties of GST nanoparticles fabricated by laser printing technique. AIP Conference Proceedings, 2017, , .	0.3	0
50	Effect of dipole orientation on Purcell factor for the quantum emitter near silicon nanoparticle. AIP Conference Proceedings, 2017, , .	0.3	0
51	Nano-architecture of metal-organic frameworks. AIP Conference Proceedings, 2017, , .	0.3	2
52	All-dielectric nanophotonics: the quest for better materials and fabrication techniques. Optica, 2017, 4, 814.	4.8	328
53	Laser deposition of resonant silicon nanoparticles on perovskite for photoluminescence enhancement. Journal of Physics: Conference Series, 2017, 929, 012053.	0.3	0
54	Laser post-processing of halide perovskites for enhanced photoluminescence and absorbance. Journal of Physics: Conference Series, 2017, 917, 062002.	0.3	6

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55	Fabrication of spherical GeSbTe nanoparticles by laser printing technique. Journal of Physics: Conference Series, 2017, 917, 062017.	0.3	1
56	Reconfigurable c-Si/Au hybrid nanoantenna. AIP Conference Proceedings, 2017, , .	0.3	1
57	Control of luminescence in resonant nanodiamonds with NV-centers. , 2017, , .		0
58	Nanoscale optical high-temperature sensor. , 2017, , .		0
59	Experimental demonstration of a reconfigurable magnetic Fano resonance in hybrid oligomers. , 2017, , .		0
60	Purcell factor enhancement by dielectric nanoantennas for nanodiamonds with NV-centers. , 2017, , .		0
61	Highly efficient optical heating of non-plasmonic nananoparticles. , 2017, , .		0
62	Multifunctional sensing with hybrid nanophotonic structures. , 2017, , .		0
63	Zero phonon line enhancement by Mie-type resonances of nanodiamonds with nitrogen-vacancy centers. , 2017, , .		0
64	Approach for fine-tuning of hybrid dimer nanoantennas via laser melting. , 2017, , .		0
65	Hybrid nanocavity for molecular sensing. , 2017, , .		0
66	Nanocrystalline resonant silicon nanoparticle for highly efficient second harmonic generation. , 2017, , .		0
67	Fabrication of Hybrid Nanostructures via Nanoscale Laser-Induced Reshaping for Advanced Light Manipulation. Advanced Materials, 2016, 28, 3087-3093.	11.1	107
68	Laser printing of Au/Si core-shell nanoparticles. Journal of Physics: Conference Series, 2016, 741, 012119.	0.3	4
69	Manipulating Fano resonance via fs-laser melting of hybrid oligomers at nanoscale. Journal of Physics: Conference Series, 2016, 741, 012140.	0.3	1
70	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
71	Raman scattering governed by dark resonant modes in silicon nanoparticles. , 2016, , .		0
72	Tuning of hybrid oligomers via femtosecond laser reshaping at nanoscale. , 2016, , .		0

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73	Modeling of formation mechanism and optical properties of Si/Au core-shell nanoparticles. , 2016, , .		3
74	Reversible and non-reversible tuning of hybrid optical nanoresonators. , 2016, , .		0
75	Controllable femtosecond laser-induced dewetting for plasmonic applications. Laser and Photonics Reviews, 2016, 10, 91-99.	4.4	66
76	Tuning of hybrid nanostructures via fs-laser reshaping at nanoscale. , 2016, , .		0
77	Properties of Zn _{1-x} Co _x O films produced by pulsed laser deposition with fast particle separation. Semiconductors, 2014, 48, 538-544.	0.2	8
78	Transport properties of thin SnO ₂ ∕Sb films grown by pulsed laser deposition. Inorganic Materials, 2013, 49, 1123-1126.	0.2	3
79	Room-temperature stimulated emission in two-dimensional Mg _x Zn _{1-x} O/ZnO heterostructures under optical pumping. Laser Physics Letters, 2013, 10, 055902.	0.6	8
80	Pulsed laser deposition of conductive indium tin oxide thin films. Inorganic Materials, 2012, 48, 1020-1025.	0.2	11
81	Application of lasers in solar cell technologies. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 1119-1122.	0.1	0
82	Optical pumped stimulated emission in ZnO-based quantum wells grown by PLD. , 2012, , .		1
83	Pulsed laser deposition of ITO thin films and their characteristics. Semiconductors, 2012, 46, 410-413.	0.2	22
84	Ion energy spectrum control in modified cross-beam pulsed laser deposition method. Technical Physics Letters, 2011, 37, 69-71.	0.2	7
85	Modified crossed-beam PLD method for the control of ion energy spectrum. Laser Physics, 2011, 21, 619-623.	0.6	1
86	Ternary alloys Cd _y Zn _{1-y} O and Mg _x Zn _{1-x} O as materials for optoelectronics. Physics of the Solid State, 2011, 53, 467-471.	0.2	10
87	Two-dimensional heterostructures based on ZnO. Applied Physics B: Lasers and Optics, 2011, 105, 565-572.	1.1	15
88	Fabrication of black multicrystalline silicon surface by nanosecond laser ablation. Applied Physics B: Lasers and Optics, 2011, 105, 545-550.	1.1	24
89	Electroluminescence of ZnO-based semiconductor heterostructures. Quantum Electronics, 2011, 41, 4-7.	0.3	6
90	Quantum efficiency increasing and lasing in the quantum wells based on ZnO. , 2010, , .		2

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91	Formation of low-reflection multicrystalline silicon surface by laser-induced structuring for application on silicon solar cells. Proceedings of SPIE, 2010, , .	0.8	2
92	Hybrid Resonant Metal-dielectric Nanostructures for Local Color Generation. JETP Letters, 0, , 1.	0.4	1