

Andrei V Zvyagin

List of Publications by Citations

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134
papers

3,770
citations

32
h-index

58
g-index

159
ext. papers

4,482
ext. citations

4.8
avg, IF

5.04
L-index

#	Paper	IF	Citations
134	Single-nanocrystal sensitivity achieved by enhanced upconversion luminescence. <i>Nature Nanotechnology</i> , 2013 , 8, 729-34	28.7	483
133	Observation and control of blinking nitrogen-vacancy centres in discrete nanodiamonds. <i>Nature Nanotechnology</i> , 2010 , 5, 345-9	28.7	354
132	Imaging of zinc oxide nanoparticle penetration in human skin in vitro and in vivo. <i>Journal of Biomedical Optics</i> , 2008 , 13, 064031	3.5	215
131	Five-nanometer diamond with luminescent nitrogen-vacancy defect centers. <i>Small</i> , 2009 , 5, 1649-53	11	132
130	Non-specific cellular uptake of surface-functionalized quantum dots. <i>Nanotechnology</i> , 2010 , 21, 285105	3.4	105
129	In vitro and in vivo imaging of xenobiotic transport in human skin and in the rat liver. <i>Journal of Biophotonics</i> , 2008 , 1, 478-93	3.1	92
128	Time-correlated single photon counting for simultaneous monitoring of zinc oxide nanoparticles and NAD(P)H in intact and barrier-disrupted volunteer skin. <i>Pharmaceutical Research</i> , 2011 , 28, 2920-30	4.5	91
127	Quantum dot penetration into viable human skin. <i>Nanotoxicology</i> , 2012 , 6, 173-85	5.3	89
126	Targeted Radionuclide Therapy of Human Tumors. <i>International Journal of Molecular Sciences</i> , 2015 , 17,	6.3	82
125	Riboflavin photoactivation by upconversion nanoparticles for cancer treatment. <i>Scientific Reports</i> , 2016 , 6, 35103	4.9	72
124	In vivo size and shape measurement of the human upper airway using endoscopic longrange optical coherence tomography. <i>Optics Express</i> , 2003 , 11, 1817-26	3.3	72
123	Facile Assembly of Functional Upconversion Nanoparticles for Targeted Cancer Imaging and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11945-53	9.5	66
122	Characterization of optical properties of ZnO nanoparticles for quantitative imaging of transdermal transport. <i>Biomedical Optics Express</i> , 2011 , 2, 3321-33	3.5	63
121	Synthesis and spectroscopic observation of dendrimer-encapsulated gold nanoclusters. <i>Chemical Communications</i> , 2006 , 2400-1	5.8	61
120	Cytotoxicity and non-specific cellular uptake of bare and surface-modified upconversion nanoparticles in human skin cells. <i>Nano Research</i> , 2015 , 8, 1546-1562	10	59
119	Feasibility study of the optical imaging of a breast cancer lesion labeled with upconversion nanoparticle biocomplexes. <i>Journal of Biomedical Optics</i> , 2013 , 18, 76004	3.5	58
118	Deep-penetrating photodynamic therapy with KillerRed mediated by upconversion nanoparticles. <i>Acta Biomaterialia</i> , 2017 , 51, 461-470	10.8	57

117	Effect of the nanodiamond host on a nitrogen-vacancy color-centre emission state. <i>Small</i> , 2013 , 9, 132-911	56
116	Dual-channel spontaneous emission of quantum dots in magnetic metamaterials. <i>Nature Communications</i> , 2013 , 4, 2949	17.4 52
115	Refractive index tomography of turbid media by bifocal optical coherence refractometry. <i>Optics Express</i> , 2003 , 11, 3503-17	3.3 48
114	Use of multiphoton tomography and fluorescence lifetime imaging to investigate skin pigmentation in vivo. <i>Journal of Biomedical Optics</i> , 2013 , 18, 26022	3.5 46
113	Quantitative imaging of single upconversion nanoparticles in biological tissue. <i>PLoS ONE</i> , 2013 , 8, e63293	7 46
112	Radioactive (Y) upconversion nanoparticles conjugated with recombinant targeted toxin for synergistic nanotheranostics of cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9690-9695	11.5 46
111	Unmodified hydrated Fullerene molecules exhibit antioxidant properties, prevent damage to DNA and proteins induced by reactive oxygen species and protect mice against injuries caused by radiation-induced oxidative stress. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 15, 37-46	6 43
110	Determination of the refractive index of $\text{NaYF}_4/\text{Yb}^{3+}/\text{Er}^{3+}/\text{Tm}^{3+}$ nanocrystals using spectroscopic refractometry. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2015 , 118, 609-613	0.7 40
109	Penetration of nanoparticles into human skin. <i>Current Pharmaceutical Design</i> , 2013 , 19, 6353-66	3.3 40
108	Delay and dispersion characteristics of a frequency-domain optical delay line for scanning interferometry. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003 , 20, 333-41	1.8 40
107	Designing inorganic light-protective skin nanotechnology products. <i>Journal of Biomedical Nanotechnology</i> , 2010 , 6, 432-51	4 40
106	Transfection and imaging of diamond nanocrystals as scattering optical labels. <i>Journal of Luminescence</i> , 2007 , 127, 260-263	3.8 39
105	Real-time dispersion compensation in scanning interferometry. <i>Optics Letters</i> , 2002 , 27, 1998-2000	3 39
104	Luminescent nanoparticles and their applications in the life sciences. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 194101	1.8 37
103	Background free imaging of upconversion nanoparticle distribution in human skin. <i>Journal of Biomedical Optics</i> , 2013 , 18, 061215	3.5 33
102	Somatostatin and its 2A receptor in dorsal root ganglia and dorsal horn of mouse and human: expression, trafficking and possible role in pain. <i>Molecular Pain</i> , 2014 , 10, 12	3.4 32
101	Rapid and Label-Free Isolation of Tumour Cells from the Urine of Patients with Localised Prostate Cancer Using Inertial Microfluidics. <i>Cancers</i> , 2019 , 12,	6.6 32
100	Versatile Platform for Nanoparticle Surface Bioengineering Based on SiO ₂ -Binding Peptide and Proteinaceous Barnase*Barstar Interface. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17437-17447	9.5 31

99	Imaging and sizing of diamond nanoparticles. <i>Optics Letters</i> , 2006 , 31, 625-7	3	31
98	Muscle-Inspired MXene Conductive Hydrogels with Anisotropy and Low-Temperature Tolerance for Wearable Flexible Sensors and Arrays. <i>Advanced Functional Materials</i> , 2105264	15.6	30
97	Submicron polyacrolein particles in situ embedded with upconversion nanoparticles for bioassay. <i>Nanoscale</i> , 2015 , 7, 1709-17	7.7	28
96	Nano-Ruby: A Promising Fluorescent Probe for Background-Free Cellular Imaging. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 506-513	3.1	28
95	Optical coherence tomography as a novel tool for non-destructive measurement of the hull thickness of lupin seeds. <i>Plant Breeding</i> , 2004 , 123, 266-270	2.4	28
94	Barstar:barnase is a versatile platform for colloidal diamond bioconjugation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 65-68		27
93	Bifocal optical coherence refractometry of turbid media. <i>Optics Letters</i> , 2003 , 28, 117-9	3	26
92	Ultraviolet phototoxicity of upconversion nanoparticles illuminated with near-infrared light. <i>Nanoscale</i> , 2017 , 9, 14921-14928	7.7	26
91	Effect of multiple transverse modes in self-mixing sensors based on vertical-cavity surface-emitting lasers. <i>Applied Optics</i> , 2007 , 46, 611-9	1.7	25
90	Achromatic optical phase shifter-modulator. <i>Optics Letters</i> , 2001 , 26, 187-9	3	24
89	Rational Surface Design of Upconversion Nanoparticles with Polyethylenimine Coating for Biomedical Applications: Better Safe than Brighter?. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3143-3153	5.5	21
88	Real-time detection technique for Doppler optical coherence tomography. <i>Optics Letters</i> , 2000 , 25, 1645-7		21
87	Preclinical Study of Biofunctional Polymer-Coated Upconversion Nanoparticles. <i>Toxicological Sciences</i> , 2019 , 170, 123-132	4.4	19
86	Mie scattering of evanescent waves by a dielectric sphere: comparison of multipole expansion and group-theory methods. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998 , 15, 3003	1.8	19
85	Computer-assisted cystoscopy diagnosis of bladder cancer. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2018 , 36, 8.e9-8.e15	2.8	18
84	Computational characterization of reflectance confocal microscopy features reveals potential for automated photoageing assessment. <i>Experimental Dermatology</i> , 2013 , 22, 458-63	4	18
83	Near-field optical microscope image formation: a theoretical and experimental study. <i>Optics Letters</i> , 1997 , 22, 955-7	3	17
82	Bioreactor-Based Tumor Tissue Engineering. <i>Acta Naturae</i> , 2016 , 8, 44-58	2.1	17

81	Extended range, rapid scanning optical delay line for biomedical interferometric imaging. <i>Electronics Letters</i> , 1999 , 35, 1404	1.1	16
80	Novel Diabetic Foot Wound Dressing Based on Multifunctional Hydrogels with Extensive Temperature-Tolerant, Durable, Adhesive, and Intrinsic Antibacterial Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26770-26781	9.5	16
79	Fluorescence recovery after photo-bleaching as a method to determine local diffusion coefficient in the stratum corneum. <i>International Journal of Pharmaceutics</i> , 2012 , 435, 93-7	6.5	15
78	Multiphoton microscopy and fluorescence lifetime imaging provide a novel method in studying drug distribution and metabolism in the rat liver in vivo. <i>Journal of Biomedical Optics</i> , 2011 , 16, 086013	3.5	15
77	Large-scale production and characterization of biocompatible colloidal nanoalumina. <i>Langmuir</i> , 2014 , 30, 15091-101	4	14
76	Statistics of single-electron signals in electron-multiplying charge-coupled devices. <i>IEEE Transactions on Electron Devices</i> , 2006 , 53, 618-622	2.9	14
75	Parallel self-mixing imaging system based on an array of vertical-cavity surface-emitting lasers. <i>Applied Optics</i> , 2007 , 46, 6237-46	1.7	13
74	Targeting somatostatin receptors using in situ-bioconjugated fluorescent nanoparticles. <i>Nanomedicine</i> , 2012 , 7, 1551-60	5.6	12
73	Signal-to-noise ratio study of full-field fourier-domain optical coherence tomography. <i>Applied Optics</i> , 2005 , 44, 7722-9	1.7	12
72	Wide-field time-gated photoluminescence microscopy for fast ultrahigh-sensitivity imaging of photoluminescent probes. <i>Journal of Biophotonics</i> , 2016 , 9, 848-58	3.1	12
71	Cytotoxic effects of upconversion nanoparticles in primary hippocampal cultures. <i>RSC Advances</i> , 2016 , 6, 33656-33665	3.7	12
70	A modular design of low-background bioassays based on a high-affinity molecular pair barstar:barnase. <i>Proteomics</i> , 2013 , 13, 1437-43	4.8	11
69	Pharmacological characterization of a recombinant, fluorescent somatostatin receptor agonist. <i>Bioconjugate Chemistry</i> , 2011 , 22, 1768-75	6.3	11
68	Fourier-domain optical coherence tomography: optimization of signal-to-noise ratio in full space. <i>Optics Communications</i> , 2004 , 242, 97-108	2	11
67	Balloon Inspired Conductive Hydrogel Strain Sensor for Reducing Radiation Damage in Peritumoral Organs During Brachytherapy. <i>Advanced Functional Materials</i> , 2112281	15.6	11
66	Development of Bright and Biocompatible Nanoruby and Its Application to Background-Free Time-Gated Imaging of G-Protein-Coupled Receptors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39197-39208	9.5	10
65	Visualization of upconverting nanoparticles in strongly scattering media. <i>Biomedical Optics Express</i> , 2014 , 5, 1952-64	3.5	10
64	Enhanced spatial resolution in optical imaging of biotissues labelled with upconversion nanoparticles using a fibre-optic probe scanning technique. <i>Laser Physics Letters</i> , 2014 , 11, 095602	1.5	9

63	Near-field optical microscope for true surface topography: theoretical study. <i>Optics Communications</i> , 1997 , 133, 328-338	2	9
62	Quantification of nanoparticle concentration in colloidal suspensions by a non-destructive optical method. <i>Nanotechnology</i> , 2017 , 28, 475702	3-4	8
61	Tracing upconversion nanoparticle penetration in human skin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 184, 110480	6	8
60	Specific Visualization of Tumor Cells Using Upconversion Nanophosphors. <i>Acta Naturae</i> , 2014 , 6, 48-53	2.1	8
59	Resolution and contrast enhancement of laser-scanning multiphoton microscopy using thulium-doped upconversion nanoparticles. <i>Nano Research</i> , 2019 , 12, 2933-2940	10	7
58	Laser-induced modification of the patellar ligament tissue: comparative study of structural and optical changes. <i>Lasers in Medical Science</i> , 2011 , 26, 401-13	3.1	7
57	Refractometry of melanocyte cell nuclei using optical scatter images recorded by digital Fourier microscopy. <i>Journal of Biomedical Optics</i> , 2009 , 14, 044031	3.5	7
56	Refractometry of organosilica microspheres. <i>Applied Optics</i> , 2007 , 46, 1554-61	1.7	7
55	Image reconstruction in full-field Fourier-domain optical coherence tomography. <i>Journal of Optics</i> , 2005 , 7, 350-356		7
54	Bioreactor-Based Tumor Tissue Engineering. <i>Acta Naturae</i> , 2016 , 8, 44-58	2.1	7
53	UCNP-based Photoluminescent Nanomedicines for Targeted Imaging and Theranostics of Cancer. <i>Molecules</i> , 2020 , 25,	4.8	7
52	Functionalized Upconversion Nanoparticles for Targeted Labelling of Bladder Cancer Cells. <i>Biomolecules</i> , 2019 , 9,	5.9	7
51	Near-Infrared Molecular Imaging of Glioblastoma by Miltuximab-IRDye800CW as a Potential Tool for Fluorescence-Guided Surgery. <i>Cancers</i> , 2020 , 12,	6.6	6
50	Selective placement of quantum dots on nanoscale areas of metal-free substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 710-713	2.5	6
49	Solution to the bistability problem in shear force distance regulation encountered in scanning force and near-field optical microscopes. <i>Applied Physics Letters</i> , 1997 , 71, 2541-2543	3.4	6
48	Optical Characterization of Zinc Pyrithione. <i>Photochemistry and Photobiology</i> , 2019 , 95, 1142-1150	3.6	5
47	Incoherent wavefront reconstruction by a retroemission device. <i>Optics Letters</i> , 2015 , 40, 1169-72	3	5
46	Optical and Spin Properties of Nitrogen-Vacancy Color Centers in Diamond Crystals, Nanodiamonds, and Proximity to Surfaces 2012 , 327-354		5

45	Scar tissue classification using nonlinear optical microscopy and discriminant analysis. <i>Journal of Biophotonics</i> , 2012 , 5, 159-67	3.1	5
44	Numerical modeling of light propagation in a hexagonal array of dielectric cylinders. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010 , 27, 865-72	1.8	5
43	Development of All-Semiconductor Laser Sources for Studies of $^{88}\text{Sr}^+$ Ions Confined in RF Trap. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, 1603-1607	1.4	5
42	Specific visualization of tumor cells using upconversion nanophosphors. <i>Acta Naturae</i> , 2014 , 6, 48-53	2.1	5
41	A method of drug delivery to tumors based on rapidly biodegradable drug-loaded containers. <i>Applied Materials Today</i> , 2021 , 25, 101199	6.6	5
40	Controlled Formation of a Protein Corona Composed of Denatured BSA on Upconversion Nanoparticles Improves Their Colloidal Stability. <i>Materials</i> , 2021 , 14,	3.5	5
39	Emerging role of circulating tumor cells in immunotherapy. <i>Theranostics</i> , 2021 , 11, 8057-8075	12.1	5
38	Multifunctional Complexes Based on Photoluminescent Upconversion Nanoparticles for Theranostics of the HER2-Positive Tumors. <i>Doklady Biochemistry and Biophysics</i> , 2020 , 491, 73-76	0.8	4
37	High-resolution deep-tissue optical imaging using anti-Stokes phosphors 2013 ,		4
36	Retroemission by a glass bead monolayer for high-sensitivity, long-range imaging of upconverting phosphors. <i>Optics Letters</i> , 2011 , 36, 3009-11	3	4
35	Fluid flow rate measurement using the change in laser junction voltage due to the self-mixing effect 2006 ,		4
34	Optical scatter imaging using digital Fourier microscopy. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 3590-3598	3	4
33	Direct photoacoustic measurement of silicon nanoparticle degradation promoted by a polymer coating. <i>Chemical Engineering Journal</i> , 2022 , 430, 132860	14.7	4
32	Theranostic Applications of Nanoparticle-Mediated Photoactivated Therapies. <i>Journal of Nanotheranostics</i> , 2021 , 2, 131-156	3.8	4
31	Application of Optical Quality Control Technologies in the Dairy Industry: An Overview. <i>Photonics</i> , 2021 , 8, 551	2.2	4
30	Measurement of action spectra of light-activated processes. <i>Journal of Biomedical Optics</i> , 2006 , 11, 014003	3	3
29	High-speed, high-sensitivity, gated surface profiling with closed-loop optical coherence topography. <i>Applied Optics</i> , 2002 , 41, 2179-84	1.7	3
28	Hydrogel Composites with Different Dimensional Nanoparticles for Bone Regeneration. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100362	4.8	3

27	Targeting Cancer Cell Tight Junctions Enhances PLGA-Based Photothermal SensitizersQ Performance In Vitro and In Vivo.. <i>Pharmaceutics</i> , 2021 , 14,	6.4	3
26	Deferred Registration of Nanophosphor Photoluminescence As a Platform for Optical Bioimaging. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019 , 126, 95-101	0.7	2
25	Upconversion luminophores as a novel tool for deep tissue imaging 2011 ,		2
24	ZnO and TiO ₂ particles: a study on nanosafety and photoprotection 2010 ,		2
23	Holographic digital Fourier microscopy for selective imaging of biological tissue. <i>International Journal of Imaging Systems and Technology</i> , 2004 , 14, 253-258	2.5	2
22	Semiconductor line source for low-coherence interferometry. <i>Applied Optics</i> , 2001 , 40, 913-5	1.7	2
21	The feasibility of Miltuximab-IRDye700DX-mediated photoimmunotherapy of solid tumors. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020 , 32, 102064	3.5	2
20	Nanoparticle Enhanced Blue Light Therapy.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 114198	18.5	2
19	Three-Dimensional Luminescence Tomographic Visualization of Biological Tissues. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019 , 126, 92-94	0.7	1
18	Acellular organ scaffolds for tumor tissue engineering 2015 ,		1
17	Fluorescent nanodiamond bioconjugates on the base of barnase:barstar module. <i>Doklady Biochemistry and Biophysics</i> , 2011 , 440, 231-3	0.8	1
16	Dialysis-assisted fiber optic spectroscopy for in situ biomedical sensing. <i>Journal of Biomedical Optics</i> , 2006 , 11, 014033	3.5	1
15	A new ring trap for frequency-standard applications. <i>Applied Physics B: Lasers and Optics</i> , 1994 , 58, 295-301		1
14	Photoluminescent Nanomaterials for Medical Biotechnology. <i>Acta Naturae</i> , 2021 , 13, 16-31	2.1	1
13	Human Epidermal Zinc Concentrations after Topical Application of ZnO Nanoparticles in Sunscreens. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
12	Facile Cell-Friendly Hollow-Core Fiber Diffusion-Limited Photofabrication.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 783834	5.8	1
11	Tissue engineered model of hepatic breast cancer micrometastasis shows host-dependent colonization patterns and drug responses		1
10	Lifetime-Engineered Ruby Nanoparticles (Tau-Rubies) for Multiplexed Imaging of μ Opioid Receptors. <i>ACS Sensors</i> , 2021 , 6, 1375-1383	9.2	1

9	Ultrasmall Red Fluorescent Gold Nanoclusters for Highly Biocompatible and Long-Time Nerve Imaging. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2100001	3.1	1
8	Machine learning reveals mesenchymal breast carcinoma cell adaptation in response to matrix stiffness. <i>PLoS Computational Biology</i> , 2021 , 17, e1009193	5	1
7	Glypican-1 as a target for fluorescence molecular imaging of bladder cancer. <i>International Journal of Urology</i> , 2021 , 28, 1290-1297	2.3	1
6	Intradermal injection of lidocaine with a microneedle device to provide rapid local anaesthesia for peripheral intravenous cannulation: A randomised open-label placebo-controlled clinical trial.. <i>PLoS ONE</i> , 2022 , 17, e0261641	3.7	0
5	Gold nanodots with stable red fluorescence for rapid dual-mode imaging of spinal cord and injury monitoring.. <i>Talanta</i> , 2022 , 241, 123241	6.2	0
4	Macrophage blockade using nature-inspired ferrihydrite for enhanced nanoparticle delivery to tumor.. <i>International Journal of Pharmaceutics</i> , 2022 , 621, 121795	6.5	0
3	High-speed gated surface profiling with closed-loop optical coherence topography. <i>Biomedizinische Technik</i> , 2002 , 47 Suppl 1 Pt 1, 189-90	1.3	
2	An investigation of the detection of an ion cloud by means of electrons. <i>Measurement Techniques</i> , 1991 , 34, 576-581	0.4	
1	Incoherent wavefront reconstruction by a retroemission device containing a thin fluorescent film: theory. <i>Applied Optics</i> , 2016 , 55, 5554-63	0.2	