

# Vladimir A Oleinikov

## List of Publications by Citations

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110  
papers

1,970  
citations

22  
h-index

41  
g-index

127  
ext. papers

2,196  
ext. citations

3.4  
avg, IF

4.12  
L-index

#	Paper	IF	Citations
110	Biocompatible fluorescent nanocrystals for immunolabeling of membrane proteins and cells. <i>Analytical Biochemistry</i> , <b>2004</b> , 324, 60-7	3.1	274
109	Oriented conjugates of single-domain antibodies and quantum dots: toward a new generation of ultrasmall diagnostic nanoprobe. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 516-25 <sup>6</sup>		116
108	Highly stable fluorescent nanocrystals as a novel class of labels for immunohistochemical analysis of paraffin-embedded tissue sections. <i>Laboratory Investigation</i> , <b>2002</b> , 82, 1259-61	5.9	116
107	Nanocrystal-encoded fluorescent microbeads for proteomics: antibody profiling and diagnostics of autoimmune diseases. <i>Nano Letters</i> , <b>2007</b> , 7, 2322-7	11.5	82
106	Functionalized nanocrystal-tagged fluorescent polymer beads: synthesis, physicochemical characterization, and immunolabeling application. <i>Analytical Biochemistry</i> , <b>2004</b> , 334, 257-65	3.1	72
105	Resonance energy transfer improves the biological function of bacteriorhodopsin within a hybrid material built from purple membranes and semiconductor quantum dots. <i>Nano Letters</i> , <b>2010</b> , 10, 2640-8 <sup>11.5</sup>		67
104	Probing cell-type-specific intracellular nanoscale barriers using size-tuned quantum dots. <i>Small</i> , <b>2009</b> , 5, 2581-8	11	61
103	Optically and electrically controlled circularly polarized emission from cholesteric liquid crystal materials doped with semiconductor quantum dots. <i>Advanced Materials</i> , <b>2012</b> , 24, 6216-22	24	59
102	DNA-assisted formation of quasi-nanowires from fluorescent CdSe/ZnS nanocrystals. <i>Nanotechnology</i> , <b>2006</b> , 17, 581-587	3.4	52
101	Semiconductor quantum dots for multiplexed bio-detection on solid-state microarrays. <i>Critical Reviews in Oncology/Hematology</i> , <b>2010</b> , 74, 1-15	7	44
100	Polyglycine II nanosheets: supramolecular antivirals?. <i>ChemBioChem</i> , <b>2003</b> , 4, 147-54	3.8	43
99	Highly fluorescent ethyl cellulose nanoparticles containing embedded semiconductor nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 342, 59-64	5.1	32
98	Surface enhancement of local optical fields and the lightning-rod effect. <i>Quantum Electronics</i> , <b>1993</b> , 23, 435-440	1.8	32
97	Advanced procedures for labeling of antibodies with quantum dots. <i>Analytical Biochemistry</i> , <b>2011</b> , 416, 180-5	3.1	31
96	Quantum dot-containing polymer particles with thermosensitive fluorescence. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 187-93	11.8	30
95	Emerging applications of fluorescent nanocrystals quantum dots for micrometastases detection. <i>Proteomics</i> , <b>2010</b> , 10, 700-16	4.8	28
94	Combined scanning probe nanotomography and optical microspectroscopy: a correlative technique for 3D characterization of nanomaterials. <i>ACS Nano</i> , <b>2013</b> , 7, 8953-62	16.7	27

93	Submicron polymer particles containing fluorescent semiconductor nanocrystals CdSe/ZnS for bioassays. <i>Nanomedicine</i> , <b>2011</b> , 6, 195-209	5.6	27
92	Multidrug-resistant cancer cells contain two populations of P-glycoprotein with differently stimulated P-gp ATPase activities: evidence from atomic force microscopy and biochemical analysis. <i>Biochemical Journal</i> , <b>2005</b> , 388, 563-71	3.8	24
91	Lab-in-a-drop: controlled self-assembly of CdSe/ZnS quantum dots and quantum rods into polycrystalline nanostructures with desired optical properties. <i>Nanotechnology</i> , <b>2007</b> , 18, 185602	3.4	23
90	Surface-Enhanced Resonance Raman Spectra of Photochromic Crown Ether Styryl Dyes, Their Model Chromophores, and Their Complexes with Mg <sup>2+</sup> . <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 2154-2160		23
89	Optical sensing quantum dot-labeled polyacrolein particles prepared by layer-by-layer deposition technique. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 357, 265-72	9.3	22
88	Interaction of CdSe/ZnS core-shell semiconductor nanocrystals in solid thin films. <i>Laser Physics</i> , <b>2006</b> , 16, 1625-1632	1.2	22
87	Structure, physical and chemical properties and applications of nuclear filters as a new class of membranes. <i>Journal of Membrane Science</i> , <b>1993</b> , 79, 285-304	9.6	22
86	Charge-controlled assembling of bacteriorhodopsin and semiconductor quantum dots for fluorescence resonance energy transfer-based nanophotonic applications. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 013703	3.4	21
85	Glass-forming photoactive cholesteric oligomers doped with quantum dots: novel materials with phototunable circularly polarised emission. <i>Liquid Crystals</i> , <b>2011</b> , 38, 737-742	2.3	20
84	Structural Basis of Topotecan DNA Recognition Probed by Flow Linear Dichroism, Circular Dichroism, and Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 9643-9652	3.4	20
83	Linear and nonlinear optical effects induced by energy transfer from semiconductor nanoparticles to photosynthetic biological systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2014</b> , 20, 17-32	16.4	19
82	Self-assembly of charged microclusters of CdSe/ZnS core/shell nanodots and nanorods into hierarchically ordered colloidal arrays. <i>Nanotechnology</i> , <b>2006</b> , 17, 4223-8	3.4	19
81	Influence of heteroligand complexation on the thermal, photoluminescent, and film-forming properties of some aromatic terbium(III) carboxylates. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2006</b> , 32, 901-909	1.6	18
80	Interaction of clinically important human DNA topoisomerase I poison, topotecan, with double-stranded DNA. <i>Biopolymers</i> , <b>2003</b> , 72, 442-54	2.2	18
79	Interaction of Topotecan, DNA Topoisomerase I Inhibitor, with Double-Stranded Polydeoxyribonucleotides. 1. Topotecan Dimerization in Solution. <i>Molecular Biology</i> , <b>2001</b> , 35, 365-373	1.2	17
78	Real energy spread of ions produced in vacuum spark-discharge plasma. <i>International Journal of Mass Spectrometry and Ion Physics</i> , <b>1981</b> , 37, 331-339		17
77	Engineering of ultra-small diagnostic nanoprobe through oriented conjugation of single-domain antibodies and quantum dots. <i>Protocol Exchange</i> ,		17
76	AFM study of laser-induced crater formation in films of azobenzene-containing photochromic nematic polymer and cholesteric mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2014</b> , 275, 30-36	4.7	16

75	Metal micro- and nanowires fabricated by matrix synthesis and their application in mass spectrometry. <i>Inorganic Materials: Applied Research</i> , <b>2010</b> , 1, 359-364	0.6	15
74	Controlled influence of quantum dots on purple membranes at interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 117, 248-51	6	14
73	Low-field magnetic circular dichroism in silver and gold colloidal nanoparticles of different sizes, shapes, and aggregation states <b>2012</b> ,		14
72	Fluorescent Colloidal Particles as Detection Tools in Biotechnology Systems 133-168		14
71	The Hoechst 33258 covalent dimer covers a total turn of the double-stranded DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2006</b> , 24, 285-302	3.6	14
70	A novel design of a scanning probe microscope integrated with an ultramicrotome for serial block-face nanotomography. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 023701	1.7	12
69	Features of Double-Spiral Valley-Hills Surface Topography Formation in Photochromic Cholesteric Oligomer-Based Films and Their Changes Under Polarized Light Action. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 2639-2646	2.6	12
68	Polyethylene-based composites containing high concentration of quantum dots. <i>Colloid and Polymer Science</i> , <b>2015</b> , 293, 1545-1551	2.4	11
67	Stimulation of Cysteine-Coated CdSe/ZnS Quantum Dot Luminescence by meso-Tetrakis (p-sulfonato-phenyl) Porphyrin. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 40	5	11
66	Resonance energy transfer in self-organized organic/inorganic dendrite structures. <i>Nanoscale</i> , <b>2013</b> , 5, 9317-23	7.7	11
65	Quantum dot-polymer composites based on nanoporous polypropylene films with different draw ratios. <i>European Polymer Journal</i> , <b>2016</b> , 82, 93-101	5.2	10
64	P-glycoprotein effect on the properties of its natural lipid environment probed by Raman spectroscopy and Langmuir-Blodgett technique. <i>FEBS Letters</i> , <b>2006</b> , 580, 4953-8	3.8	10
63	Polyethyleneterephthalate track membranes with conical pores: Etching by water-alcohol alkali solutions. <i>Radiation Measurements</i> , <b>1995</b> , 25, 713-714	1.5	10
62	An instrumental approach to combining confocal microspectroscopy and 3D scanning probe nanotomography. <i>Ultramicroscopy</i> , <b>2017</b> , 182, 118-123	3.1	9
61	Photoinduced Changes of Surface Topography in Amorphous, Liquid-Crystalline, and Crystalline Films of Bent-Core Azobenzene-Containing Substance. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 5073-82	3.4	9
60	DNA specific fluorescent symmetric dimeric bisbenzimidazoles DBP(n): the synthesis, spectral properties, and biological activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 2634-8	2.9	9
59	Laser-induced luminescence of multilayer structures based on polyimides and CdSe and CdSe/ZnS nanocrystals. <i>Laser Physics Letters</i> , <b>2009</b> , 6, 718-722	1.5	9
58	Raman and surface-enhanced Raman scattering spectroscopy of bis-netropsins and their DNA complexes. <i>Biopolymers</i> , <b>2000</b> , 57, 272-81	2.2	9

57	Sialylation sensitive bands in the Raman spectra of oligosaccharides and glycoproteins. <i>Journal of Molecular Structure</i> , <b>1999</b> , 480-481, 475-480	3.4	9
56	The study of the desorption/ionization from the replicas of etched ion tracks. <i>Radiation Measurements</i> , <b>2008</b> , 43, S635-S638	1.5	8
55	Quasi-nanowires from fluorescent semiconductor nanocrystals on the surface of oriented DNA molecules. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2006</b> , 100, 854-861	0.7	8
54	Laser-induced photoprocesses in solutions and films of the CdSe/ZnS nanoparticles. <i>Laser Physics</i> , <b>2008</b> , 18, 925-938	1.2	7
53	Metallic microwires obtained as replicas of etched ion tracks in polymer matrixes: Microscopy and emission properties. <i>Radiation Measurements</i> , <b>2009</b> , 44, 1123-1129	1.5	6
52	Problems and prospects of development of nanomembrane technology. <i>Crystallography Reports</i> , <b>2006</b> , 51, 850-862	0.6	6
51	DNA structural alterations induced by bis-netropsins modulate human DNA topoisomerase I cleavage activity and poisoning by camptothecin. <i>Biochemical Pharmacology</i> , <b>2002</b> , 64, 79-90	6	6
50	The effect of silver nanoparticles on the photocycle of bacteriorhodopsin of purple membranes of <i>Halobacterium salinarum</i> . <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2016</b> , 121, 210-219	0.7	5
49	Silver Nanoparticles Strongly Affect the Properties of Bacteriorhodopsin, a Photosensitive Protein of <i>Halobacterium Salinarium</i> Purple Membranes. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 502-506	1.4	5
48	Aggregation and photoisomerization of amphiphilic crown-ether styryl dye in monolayers at the interface. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 2362-2368	1.7	5
47	Development of a Bead-Based Multiplex Assay for the Simultaneous Quantification of Three Staphylococcal Enterotoxins in Food by Flow Cytometry. <i>Food Analytical Methods</i> , <b>2020</b> , 13, 1202-1210	3.4	4
46	ART-XC/SRG: status of the x-ray focal plane detector development <b>2014</b> ,		4
45	Crown-ether styryl dyes. <i>Russian Chemical Bulletin</i> , <b>1995</b> , 44, 2323-2330	1.7	4
44	Novel cholesteric materials doped with CdSe/ZnS quantum dots with photo- and electro-tunable circularly polarized emission <b>2012</b> ,		3
43	Oriented conjugates of monoclonal and single-domain antibodies with quantum dots for flow cytometry and immunohistochemistry diagnostic applications <b>2012</b> ,		3
42	High-resolution 3D structural and optical analyses of hybrid or composite materials by means of scanning probe microscopy combined with the ultramicrotome technique: an example of application to engineering of liquid crystals doped with fluorescent quantum dots <b>2013</b> ,		3
41	Raman spectroscopy of topotecan, an inhibitor of DNA topoisomerase I. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2002</b> , 93, 493-500	0.7	3
40	Interaction of Topotecan, DNA Topoisomerase I Inhibitor, with Double-stranded Polydeoxyribonucleotides. 3. Binding at the Minor Groove. <i>Molecular Biology</i> , <b>2002</b> , 36, 400-411	1.2	3

39	Amphiphilic Poly(-vinylpyrrolidone) Nanoparticles Conjugated with DR5-Specific Antitumor Cytokine DR5-B for Targeted Delivery to Cancer Cells. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	3
38	Structure of Supramers Formed by the Amphiphile Biotin-CMG-DOPE. <i>ChemistryOpen</i> , <b>2020</b> , 9, 641-648	2.3	2
37	Nanohybrid Structures Based on Plasmonic or Fluorescent Nanoparticles and Retinal-Containing Proteins. <i>Biochemistry (Moscow)</i> , <b>2020</b> , 85, S196-S212	2.9	2
36	Raman and SERS Spectroscopy of D96N Mutant Bacteriorhodopsin. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 497-501	1.4	2
35	DNA sequence-specific ligands: XVI. Series of the DBP(n) fluorescent dimeric bisbenzimidazoles with 1,4-piperazine-containing linkers. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2017</b> , 43, 143-149	1	2
34	High-resolution Scanning Near-field Optical Nanotomography: A Technique for 3D Multimodal Nanoscale Characterization of Nano-biophotonic Materials. <i>Physics Procedia</i> , <b>2015</b> , 73, 168-172		2
33	Ganglioside GM1-binding sites in interleukin-4: a photoaffinity labeling study. <i>Doklady Biochemistry and Biophysics</i> , <b>2008</b> , 418, 31-5	0.8	2
32	Surface-enhanced Raman scattering spectroscopy of topotecan-DNA complexes: Binding to DNA induces topotecan dimerization. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2002</b> , 93, 416-423	0.7	2
31	One-dimensional necklace-like assemblies of inorganic nanoparticles: Recent advances in design, preparation and applications. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 297, 102543	14.3	2
30	The effect of plasmon silver and exciton semiconductor nanoparticles on the bacteriorhodopsin photocycle in Halobacterium salinarum membranes. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2017</b> , 122, 30-35	0.7	1
29	Application of Monoclonal Antibodies and Phage Display Technology for YB-1 Protein Analysis. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2020</b> , 46, 43-51	1	1
28	Submicron QDs-containing Particles as Nano-thermosensors. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, 617-624		1
27	Extension of the spectral range of bacteriorhodopsin functional activity by energy transfer from quantum dots <b>2012</b> ,		1
26	Biosensing with thermosensitive fluorescent quantum dot-containing polymer particles <b>2012</b> ,		1
25	Ion Track Matrices: Porous Structure, Deposition of Metals and Emission Properties of Obtained Replicas. <i>Defect and Diffusion Forum</i> , <b>2013</b> , 341, 143-154	0.7	1
24	Laser induced luminescence of dense films of CdSe/ZnS nanoparticles <b>2007</b> ,		1
23	DNA binding induces conformational transition within human DNA topoisomerase I in solution. <i>Biopolymers</i> , <b>2002</b> , 67, 369-75	2.2	1
22	Quasistatic hysteresis loops of magnetic nanoparticles in a rotating magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 499, 166260	2.8	1



21	Emitters with different dimensionality: 2D cadmium chalcogenide nanoplatelets and 0D quantum dots in non-specific cell labeling and two-photon imaging. <i>Nanotechnology</i> , <b>2020</b> , 31, 435102	3.4	1
20	High-Performance, Reproducible Tip-Enhanced Raman Scattering Probes. <i>Technical Physics Letters</i> , <b>2020</b> , 46, 1084-1087	0.7	1
19	Scanning near-field optical nanotomography: a new method of multiparametric 3D investigation of nanostructural materials. <i>Technical Physics Letters</i> , <b>2016</b> , 42, 171-174	0.7	1
18	Regulation of Aggregation of Self-Associated Peptides, Including N-Terminal Fragments of the Alzheimer's Amyloid Peptide, by Nitro Derivatives of Azoloazine. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2018</b> , 44, 665-675	1	1
17	Nanoscale Correlation Analysis of the Morphological, Optical, and Magnetic Structure of Polymer Microspheres for Multiplex Diagnostics. <i>Technical Physics Letters</i> , <b>2020</b> , 46, 224-227	0.7	0
16	Interaction of SiFe Nanoparticles with Epithelial and Lymphoid Cells. <i>Russian Journal of Bioorganic Chemistry</i> , <b>2020</b> , 46, 1198-1206	1	0
15	Microstructure and Optical Properties of Composites Consisting of Nanoporous Stretched Polypropylene Doped with Liquid Crystals and Quantum Dots at a High Concentration. <i>Oriental Journal of Chemistry</i> , <b>2016</b> , 32, 2863-2872	0.8	0
14	Heating ability of elongated magnetic nanoparticles.. <i>Beilstein Journal of Nanotechnology</i> , <b>2021</b> , 12, 1404-1412	0	0
13	Structure of Supramers Formed by the Amphiphile Biotin-CMG-DOPE. <i>ChemistryOpen</i> , <b>2020</b> , 9, 640	2.3	0
12	Peculiarities of biomedical applications of silicon nanoparticles (Review). <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1439, 012047	0.3	0
11	Interaction of Topotecan, DNA Topoisomerase I Inhibitor, with Double-stranded Polydeoxyribonucleotides. 4. Topotecan Binds Preferably to the GC Base Pairs of DNA. <i>Molecular Biology</i> , <b>2002</b> , 36, 736-753	1.2	0
10	Application of secondary structures prepared on the base of track membrane technique for scanning tunneling microscopy. <i>Radiation Measurements</i> , <b>1995</b> , 25, 699-702	1.5	0
9	Trace analysis by surface-enhanced Raman scattering with the use of the track membrane technique. <i>Journal of Applied Spectroscopy</i> , <b>1993</b> , 59, 820-825	0.7	0
8	Small-angle X-ray (SAXS) and Raman spectroscopy studies of biot-CMG(2)-DOPE quasicrystalline phases. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2058, 012018	0.3	0
7	Comparative analysis of SERS-active colloidal silver solutions of various type and prospects of their applications. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2058, 012023	0.3	0
6	Loading efficiency of doxorubicin into the micelle-like structures formed by function-spacer-lipid constructs self-assembly depends on constructs functional part. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2058, 012003	0.3	0
5	Chapter 5 Energy Transfer Mechanisms in Nanobiohybrid Structures Based on Quantum Dots and Photosensitive Membrane Proteins <b>2017</b> , 167-206	0	0
4	Cells Cultivation System and Preparation of the Purple Membranes for Bionanotechnology. <i>Biosciences, Biotechnology Research Asia</i> , <b>2017</b> , 14, 679-684	0.5	0

- 3 The study of the interaction of quantum dots with phosphatidylcholine to create hybrid functional materials. *Journal of Physics: Conference Series*, **2020**, 1658, 012070 0.3
- 2 Ribonucleic acid (RNA) condensation by thermal cycling with metal cations: yield of nanoparticles and their applicability for transfection. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 3959-3971 3.6
- 1 Formation of an Efficient Energy Transfer Complex between Quantum Dots and *Exiguobacterium sibiricum* Retinal Protein via the Histidine-Cysteine Anchor. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 687-694 1