Dmitry V Klinov

List of Publications by Year
in descending order

101	2,660	279798	197818
papers	citations	23 h-index	49 g-index

109	109	109	3309
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proximity-Induced Superconductivity in DNA. Science, 2001, 291, 280-282.	12.6	648
2	Biocompatible fluorescent nanocrystals for immunolabeling of membrane proteins and cells. Analytical Biochemistry, 2004, 324, 60-67.	2.4	312
3	True molecular resolution in tapping-mode atomic force microscopy with high-resolution probes. Applied Physics Letters, 2004, 84, 2697-2699.	3.3	108
4	Observation of single-stranded DNA on mica and highly oriented pyrolytic graphite by atomic force microscopy. FEBS Letters, 2006, 580, 5671-5675.	2.8	90
5	Thickness and low-temperature conductivity of DNA molecules. Applied Physics Letters, 2004, 84, 1007-1009.	3.3	87
6	Feasibility study of the optical imaging of a breast cancer lesion labeled with upconversion nanoparticle biocomplexes. Journal of Biomedical Optics, 2013, 18, 076004.	2.6	84
7	Visualization of fibrinogen Î±C regions and their arrangement during fibrin network formation by highâ€resolution AFM. Journal of Thrombosis and Haemostasis, 2015, 13, 570-579.	3.8	78
8	A Novel Model System for Design of Biomaterials Based on Recombinant Analogs of Spider Silk Proteins. Journal of NeuroImmune Pharmacology, 2009, 4, 17-27.	4.1	77
9	High-resolution atomic force microscopy of duplex and triplex DNA molecules. Nanotechnology, 2007, 18, 225102.	2.6	51
10	AFM visualization at a single-molecule level of denaturated states of proteins on graphite. Colloids and Surfaces B: Biointerfaces, 2016, 146, 777-784.	5.0	51
11	RNA-binding properties of the 63ÂkDa protein encoded by the triple gene block of poa semilatent hordeivirus. Journal of General Virology, 2001, 82, 2569-2578.	2.9	50
12	Polyglycine II Nanosheets: Supramolecular Antivirals?. ChemBioChem, 2003, 4, 147-154.	2.6	48
13	Morphometric characterization of fibrinogen's Î±C regions and their role in fibrin self-assembly and molecular organization. Nanoscale, 2017, 9, 13707-13716.	5.6	35
14	High resolution mapping DNAs by R-loop atomic force microscopy. Nucleic Acids Research, 1998, 26, 4603-4610.	14.5	34
15	Polymorphism of G4 associates: from stacks to wires via interlocks. Nucleic Acids Research, 2018, 46, 8978-8992.	14.5	34
16	Synthesis and Properties of Novel Silverâ€Containing DNA Molecules. Advanced Materials, 2016, 28, 4839-4844.	21.0	33
17	High-Resolution Atomic Force Microscopy Study of Hexaglycylamide Epitaxial Structures on Graphite. Langmuir, 2011, 27, 5879-5890.	3.5	32
18	A coarse-grained model for DNA origami. Nucleic Acids Research, 2018, 46, 1102-1112.	14.5	30

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19	Comparison of the â€˜Chemicalâ€™ and â€˜Structuralâ€™ Approaches to the Optimization of the Thrombin-Binding Aptamer. PLoS ONE, 2014, 9, e89383.	2.5	29
20	Temperature-Controlled Assembly of High Ordered/Disordered Dodecylamine Layers on HOPG: Consequences for DNA Patterning. Langmuir, 2009, 25, 3159-3162.	3.5	27
21	Evaluation of immune response and protective effect of four vaccines against the tick-borne encephalitis virus. Vaccine, 2014, 32, 3101-3106.	3.8	26
22	Morphology and aggregation of RADAâ€16â€ peptide Studied by AFM, NMR and molecular dynamics simulations. Biopolymers, 2016, 106, 72-81.	2.4	25
23	Atomic force microscopy analysis of bacteriophages PhiKZ and T4. Journal of Electron Microscopy, 2001, 50, 417-422.	0.9	24
24	Branching of the galacturonan backbone of comaruman, a pectin from the marsh cinquefoil Comarum palustre L.. Biochemistry (Moscow), 2006, 71, 538-542.	1.5	24
25	Lab-in-a-drop: controlled self-assembly of CdSe/ZnS quantum dots and quantum rods into polycrystalline nanostructures with desired optical properties. Nanotechnology, 2007, 18, 185602.	2.6	23
26	Adsorbed plasma proteins modulate the effects of single-walled carbon nanotubes on neutrophils in blood. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1615-1625.	3.3	23
27	Protein nanoparticles with ligand-binding and enzymatic activities. International Journal of Nanomedicine, 2018, Volume 13, 6637-6646.	6.7	22
28	Self-assembly of charged microclusters of CdSe/ZnS core/shell nanodots and nanorods into hierarchically ordered colloidal arrays. Nanotechnology, 2006, 17, 4223-4228.	2.6	20
29	Factor XIII topology: organization of B subunits and changes with activation studied with singleâ€molecule atomic force microscopy. Journal of Thrombosis and Haemostasis, 2019, 17, 737-748.	3.8	20
30	Photonic crystal surface mode imaging for multiplexed and high-throughput label-free biosensing. Biosensors and Bioelectronics, 2020, 168, 112575.	10.1	18
31	Tuning the properties of electrospun polylactide mats by ethanol treatment. Materials and Design, 2019, 181, 108061.	7.0	17
32	Medicinal leech antimicrobial peptides lacking toxicity represent a promising alternative strategy to combat antibiotic-resistant pathogens. European Journal of Medicinal Chemistry, 2019, 180, 143-153.	5.5	17
33	Spatial organization of Dps and DNAâ€“Dps complexes. Journal of Molecular Biology, 2021, 433, 166930.	4.2	17
34	The structural diversity of C-rich DNA aggregates: unusual self-assembly of beetle-like nanostructures. Physical Chemistry Chemical Physics, 2018, 20, 3543-3553.	2.8	16
35	Thermal denaturation of fibrinogen visualized by single-molecule atomic force microscopy. Colloids and Surfaces B: Biointerfaces, 2018, 167, 370-376.	5.0	16
36	Conduction of DNA molecules attached to a disconnected array of metallic Ga nanoparticles. New Journal of Physics, 2011, 13, 063046.	2.9	15

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37	High-resolution atomic force microscopy of DNA. Biochemistry (Moscow), 2009, 74, 1150-1154.	1.5	14
38	Time-Lapse Single-Biomolecule Atomic Force Microscopy Investigation on Modified Graphite in Solution. Langmuir, 2017, 33, 10027-10034.	3.5	14
39	Synthesis of novel poly(dG)-poly(dG)-poly(dC) triplex structure by Klenow exo- fragment of DNA polymerase I. Nucleic Acids Research, 2005, 33, 6515-6521.	14.5	13
40	Photo- and cathodo-luminescence of needle-like single crystal diamonds. Journal of Luminescence, 2016, 179, 539-544.	3.1	13
41	Data set on G4 DNA interactions with human proteins. Data in Brief, 2018, 18, 348-359.	1.0	13
42	In Situ Single-Molecule AFM Investigation of Surface-Induced Fibrinogen Unfolding on Graphite. Langmuir, 2019, 35, 9732-9739.	3.5	13
43	An Improved Substrate for Superior Imaging of Individual Biomacromolecules with Atomic Force Microscopy. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111321.	5.0	13
44	DNA Nanopositioning and Alignment by Electron-Beam-Induced Surface Chemical Patterning. Nano Letters, 2007, 7, 3583-3587.	9.1	12
45	Force spectroscopy of barnaseâ€“barstar single molecule interaction. Journal of Molecular Recognition, 2010, 23, 583-588.	2.1	12
46	Application of vasoactive and matrix-modifying drugs can improve polyplex delivery to tumors upon intravenous administration. Journal of Controlled Release, 2016, 232, 20-28.	9.9	12
47	Poly(hydroxybutyrateâ€‹coâ€hydroxyvalerate) and bovine serum albumin blend prepared by electrospinning. Journal of Applied Polymer Science, 2017, 134, 45090.	2.6	12
48	The Hirudo Medicinalis Microbiome Is a Source of New Antimicrobial Peptides. International Journal of Molecular Sciences, 2020, 21, 7141.	4.1	12
49	Anti-HIV Activities of Intramolecular G4 and Non-G4 Oligonucleotides. Nucleic Acid Therapeutics, 2017, 27, 56-66.	3.6	11
50	Efficient silica synthesis from tetra(glycerol)orthosilicate with cathepsin- and silicatein-like proteins. Scientific Reports, 2018, 8, 16759.	3.3	11
51	Albumin-stabilized fluorescent metal nanoclusters: fabrication, physico-chemical properties and cytotoxicity. Materials and Design, 2020, 192, 108771.	7.0	11
52	Can Dissipative Properties of Single Molecules Be Extracted from a Force Spectroscopy Experiment?. Biophysical Journal, 2016, 111, 1163-1172.	0.5	10
53	High-resolution atomic force microscopy visualization of metalloproteins and their complexes. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2862-2868.	2.4	10
54	Carbon Nanospikes: Synthesis, characterization and application for high resolution AFM. Ultramicroscopy, 2019, 197, 11-15.	1.9	9

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55	Wetting of electrospun nylon-11 fibers and mats. RSC Advances, 2021, 11, 11373-11379.	3.6	9
56	The Elaboration of Effective Coatings for Photonic Crystal Chips in Optical Biosensors. Polymers, 2022, 14, 152.	4.5	9
57	Targeting of Silver Cations, Silver-Cystine Complexes, Ag Nanoclusters, and Nanoparticles towards SARS-CoV-2 RNA and Recombinant Virion Proteins. Viruses, 2022, 14, 902.	3.3	9
58	Dye adsorption onto electrospun films made of polylactic acid and gelatin. Molecular Crystals and Liquid Crystals, 2018, 669, 126-133.	0.9	8
59	Wall Thickness of Industrial Multi-Walled Carbon Nanotubes Is Not a Crucial Factor for Their Degradation by Sodium Hypochlorite. Nanomaterials, 2018, 8, 715.	4.1	8
60	The miscibility and spatial distribution of the components in electrospun polymerâ€“protein mats. RSC Advances, 2020, 10, 4672-4680.	3.6	8
61	Protein nanoparticles: cellular uptake, intracellular distribution, biodegradation and induction of cytokine gene expression. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 30, 102293.	3.3	7
62	Molecular patterns of oligopeptide hydrocarbons on graphite. Colloids and Surfaces B: Biointerfaces, 2021, 206, 111921.	5.0	7
63	A water-soluble precursor for efficient silica polymerization by silicateins. Biochemical and Biophysical Research Communications, 2018, 495, 2066-2070.	2.1	6
64	Direct visualization of the oligomeric state of hemagglutinins of influenza virus by high-resolution atomic force microscopy. Biochimie, 2018, 146, 148-155.	2.6	6
65	Imaging human keratinocytes grown on electrospun mats by scanning electron microscopy. Microscopy Research and Technique, 2019, 82, 544-549.	2.2	6
66	Protein Corona on Gold and Silver Nanoparticles. Materials Science Forum, 2018, 936, 42-46.	0.3	5
67	Surface modification with polyallylamines for adhesion of biopolymers and cells. International Journal of Adhesion and Adhesives, 2019, 92, 125-132.	2.9	5
68	Toehold-Mediated Selective Assembly of Compact Discrete DNA Nanostructures. Langmuir, 2020, 36, 15119-15127.	3.5	5
69	Comparative Study of Atomic Force Imaging of DNA on Graphite and Mica Surfaces. AIP Conference Proceedings, 2006, , .	0.4	4
70	Long range electronic transport in DNA molecules deposited across a disconnected array of metallic nanoparticles. Comptes Rendus Physique, 2012, 13, 967-992.	0.9	4
71	Ti2NiCu based composite nanotweezers with a shape memory effect and its use for DNA bunches 3D manipulation. AIP Conference Proceedings, 2019, , .	0.4	4
72	Evidence of (anti)metamorphic properties of modified graphitic surfaces obtained in real time at a single-molecule level. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111077.	5.0	4

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73	Anomalous Laterally Stressed Kinetically Trapped DNA Surface Conformations. Nano-Micro Letters, 2021, 13, 130.	27.0	4
74	Fluorescence imaging of cells using long-range electromagnetic surface waves for excitation. Applied Optics, 2020, 59, 4833.	1.8	4
75	Spontaneous DNA Synapsis by Forming Noncanonical Intermolecular Structures. Polymers, 2022, 14, 2118.	4.5	4
76	Atomic Force and Electron Microscopy of High Molecular Weight Circular DNA Complexes with Synthetic Oligopeptide Trivaline. Journal of Biomolecular Structure and Dynamics, 2000, 17, 687-695.	3.5	3
77	DNA-Metalization: Synthesis and Properties of Novel Silver-Containing DNA Molecules (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	21.0	3
78	Luminescent properties of diamond single crystals of pyramidal shape. Physics of the Solid State, 2016, 58, 2307-2311.	0.6	3
79	Detection of DNA molecules in a lipid nanotube channel in the low ion strength conditions. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2017, 11, 217-224.	0.6	3
80	Nuclei deformation in HaCaT keratinocytes cultivated on aligned fibrous substrates. Moscow University Biological Sciences Bulletin, 2017, 72, 85-90.	0.7	3
81	Distribution of polylactide and gelatin in single electrospun nanofibers studied by Raman spectroscopy. AIP Conference Proceedings, 2019, , .	0.4	3
82	Single crystal diamond probes for atomic-force microscopy. Technical Physics Letters, 2014, 40, 553-557.	0.7	2
83	Conformational polymorphysm of G-rich fragments of DNA Alu-repeats. I. Noncanonical structures. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2017, 11, 62-71.	0.4	2
84	Deposition and Visualization of DNA Molecules on Graphene That Is Obtained with the Aid of Mechanical Splitting on a Substrate with an Epoxy Sublayer. Journal of Communications Technology and Electronics, 2018, 63, 1226-1229.	0.5	2
85	Application of fluorescence and scanning electron microscopy for the investigation of cell contact guidance. AIP Conference Proceedings, 2019, , .	0.4	2
86	Investigation of cellular morphology and proliferation on patterned electrospun PLA-gelatin mats. Journal of Biological Physics, 2021, 47, 205-214.	1.5	2
87	Myeloperoxidaseâ€induced fibrinogen unfolding and clotting. Microscopy Research and Technique, 2022, 85, 2537-2548.	2.2	2
88	Assembling Nanostructures from DNA Using a Composite Nanotweezers with a Shape Memory Effect. , 2018, , .		1
89	Thin layer fluorescence microscopy based on one-dimensional photonic crystal. EPJ Web of Conferences, 2018, 190, 03010.	0.3	1
90	Use of Modified Graphite for Single-Molecule Atomic Force Microscopy of Biomacromolecules. Biophysical Journal, 2019, 116, 428a.	0.5	1

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91	Protein Nanoparticles with Enzymatic and Antigen-Binding Activities Induce Th1 Cytokine Gene Expression. Materials Science Forum, 2020, 995, 109-113.	0.3	1
92	Nanosilver in Biomedicine: Advantages and Restrictions. , 0, , .		1
93	Stimulation Of Neutrophil Oxidative Burst By Calcium Phosphate Particles With Adsorbed Mucin. Russian Open Medical Journal, 2021, 10, .	0.3	1
94	Catalytic method for modifying the surface of pyrolytic graphite. Russian Chemical Bulletin, 1994, 43, 1128-1131.	1.5	0
95	Proximity induced and intrinsic superconductivity in long and short molecules. Les Houches Summer School Proceedings, 2005, 81, 593-595.	0.2	0
96	Electrospun Biodegradable Scaffold Made of Poly(Hydroxybutyrate-Co-Hydroxyvalerate) & Bovine Serum Albumin. Biophysical Journal, 2017, 112, 591a.	0.5	0
97	Applicability of TOF-SIMS for the assessment of lipid composition of cell membrane structures. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2017, 11, 144-150.	0.6	0
98	Au/Ag-containing DNA-based nanowires. EPJ Web of Conferences, 2018, 190, 04004.	0.3	0
99	Two novel transcriptional reporter systems for monitoring Helicobacter pylori stress responses. Plasmid, 2019, 106, 102442.	1.4	0
100	Label-free real time optical detection of binding of living cells and biopolymers. Journal of Physics: Conference Series, 2019, 1236, 012032.	0.4	0
101	Direct Experimental Evidence of Surface-induced Protein Unfolding at the Single-molecule Level. Microscopy and Microanalysis, 2020, 26, 312-313.	0.4	0