

# Yuri L Lyubchenko

## List of Publications by Citations

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170  
papers

6,328  
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45  
h-index

71  
g-index

194  
ext. papers

7,092  
ext. citations

5.3  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
170	Adsorption of DNA to Mica, Silylated Mica, and Minerals: Characterization by Atomic Force Microscopy. <i>Langmuir</i> , <b>1995</b> , 11, 655-659	4	223
169	Silatrane-based surface chemistry for immobilization of DNA, protein-DNA complexes and other biological materials. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 279-87	3.1	203
168	Simple test system for single molecule recognition force microscopy. <i>Analytica Chimica Acta</i> , <b>2003</b> , 479, 59-75	6.6	174
167	Atomic force microscopy imaging of double stranded DNA and RNA. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1992</b> , 10, 589-606	3.6	142
166	Residues 17-20 and 30-35 of beta-amyloid play critical roles in aggregation. <i>Journal of Neuroscience Research</i> , <b>2004</b> , 75, 162-71	4.4	140
165	Regulation of poly(ADP-ribose) polymerase-1 by DNA structure-specific binding. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 17076-83	5.4	140
164	Structure and dynamics of supercoil-stabilized DNA cruciforms. <i>Journal of Molecular Biology</i> , <b>1998</b> , 280, 61-72	6.5	134
163	AFM for analysis of structure and dynamics of DNA and protein-DNA complexes. <i>Methods</i> , <b>2009</b> , 47, 206-18	4.8	127
162	Effects of nitration on the structure and aggregation of alpha-synuclein. <i>Molecular Brain Research</i> , <b>2005</b> , 134, 84-102		127
161	Fabrication of 14 different RNA nanoparticles for specific tumor targeting without accumulation in normal organs. <i>Rna</i> , <b>2013</b> , 19, 767-77	5.8	120
160	Imaging of nucleic acids with atomic force microscopy. <i>Methods</i> , <b>2011</b> , 54, 274-83	4.6	118
159	Protein interactions and misfolding analyzed by AFM force spectroscopy. <i>Journal of Molecular Biology</i> , <b>2005</b> , 354, 1028-42	6.5	107
158	Single chain variable fragments against beta-amyloid (Abeta) can inhibit Abeta aggregation and prevent abeta-induced neurotoxicity. <i>Biochemistry</i> , <b>2004</b> , 43, 6959-67	3.2	105
157	Forcing nonamyloidogenic beta-synuclein to fibrillate. <i>Biochemistry</i> , <b>2005</b> , 44, 9096-107	3.2	95
156	Inhibiting aggregation of alpha-synuclein with human single chain antibody fragments. <i>Biochemistry</i> , <b>2004</b> , 43, 2871-8	3.2	95
155	Dynamics of nucleosomes assessed with time-lapse high-speed atomic force microscopy. <i>Biochemistry</i> , <b>2011</b> , 50, 7901-8	3.2	94
154	Crystal structure of 3WJ core revealing divalent ion-promoted thermostability and assembly of the Phi29 hexameric motor pRNA. <i>Rna</i> , <b>2013</b> , 19, 1226-37	5.8	90

153	SAMHD1 is a single-stranded nucleic acid binding protein with no active site-associated nuclease activity. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 6486-99	20.1	89
152	Atomic force microscopy of reovirus dsRNA: a routine technique for length measurements. <i>Nucleic Acids Research</i> , <b>1992</b> , 20, 3983-6	20.1	85
151	Atomic force microscopic demonstration of DNA looping by GalR and HU. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 873-6	20.1	82
150	Bridged filaments of histone-like nucleoid structuring protein pause RNA polymerase and aid termination in bacteria. <i>ELife</i> , <b>2015</b> , 4,	8.9	82
149	Unpaired structures in SCA10 (ATTCT) <sub>n</sub> (AGAAT) <sub>n</sub> repeats. <i>Journal of Molecular Biology</i> , <b>2003</b> , 326, 1095-1111	6.1	79
148	Label-free characterization of exosome via surface enhanced Raman spectroscopy for the early detection of pancreatic cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 16, 88-96	6	76
147	Atomic force microscopy studies provide direct evidence for dimerization of the HIV restriction factor APOBEC3G. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 3387-95	5.4	75
146	A cruciform structural transition provides a molecular switch for chromosome structure and dynamics. <i>Journal of Molecular Biology</i> , <b>2000</b> , 296, 1169-73	6.5	75
145	Single-molecule atomic force microscopy force spectroscopy study of Aβ40 interactions. <i>Biochemistry</i> , <b>2011</b> , 50, 5154-62	3.2	73
144	Nonnative SOD1 trimer is toxic to motor neurons in a model of amyotrophic lateral sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 614-9	11.5	72
143	Dynamics of nucleosomes revealed by time-lapse atomic force microscopy. <i>Biochemistry</i> , <b>2009</b> , 48, 7842-8	3.2	70
142	Preparation of DNA and nucleoprotein samples for AFM imaging. <i>Micron</i> , <b>2011</b> , 42, 196-206	2.3	70
141	Mica functionalization for imaging of DNA and protein-DNA complexes with atomic force microscopy. <i>Methods in Molecular Biology</i> , <b>2013</b> , 931, 295-312	1.4	69
140	Single-molecule dynamics of the DNA-EcoRII protein complexes revealed with high-speed atomic force microscopy. <i>Biochemistry</i> , <b>2009</b> , 48, 10492-8	3.2	68
139	DNA structure and dynamics: an atomic force microscopy study. <i>Cell Biochemistry and Biophysics</i> , <b>2004</b> , 41, 75-98	3.2	68
138	Physicochemically tunable polyfunctionalized RNA square architecture with fluorogenic and ribozymatic properties. <i>ACS Nano</i> , <b>2014</b> , 8, 7620-9	16.7	65
137	alpha-Synuclein misfolding: single molecule AFM force spectroscopy study. <i>Journal of Molecular Biology</i> , <b>2008</b> , 384, 992-1001	6.5	65
136	Nanoscale Dynamics of Amyloid Aβ2 Oligomers As Revealed by High-Speed Atomic Force Microscopy. <i>ACS Nano</i> , <b>2017</b> , 11, 12202-12209	16.7	63

135	The structure of intramolecular triplex DNA: atomic force microscopy study. <i>Journal of Molecular Biology</i> , <b>2001</b> , 314, 353-7	6.5	61
134	Mechanism of amyloid $\beta$ protein dimerization determined using single-molecule AFM force spectroscopy. <i>Scientific Reports</i> , <b>2013</b> , 3, 2880	4.9	58
133	Specific binding of poly(ADP-ribose) polymerase-1 to cruciform hairpins. <i>Journal of Molecular Biology</i> , <b>2005</b> , 348, 609-15	6.5	58
132	Early stages for Parkinson's development: alpha-synuclein misfolding and aggregation. <i>Journal of NeuroImmune Pharmacology</i> , <b>2009</b> , 4, 10-6	6.9	54
131	Astrocyte EV-Induced lincRNA-Cox2 Regulates Microglial Phagocytosis: Implications for Morphine-Mediated Neurodegeneration. <i>Molecular Therapy - Nucleic Acids</i> , <b>2018</b> , 13, 450-463	10.7	52
130	Probing Interactions within the synaptic DNA-Sfil complex by AFM force spectroscopy. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 1407-16	6.5	50
129	Atomic force microscopy imaging and probing of DNA, proteins, and protein DNA complexes: silatrane surface chemistry. <i>Methods in Molecular Biology</i> , <b>2009</b> , 543, 337-51	1.4	49
128	Holliday junction dynamics and branch migration: single-molecule analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 8186-91	11.5	47
127	Mapping nucleosome locations on the 208-12 by AFM provides clear evidence for cooperativity in array occupation. <i>Biochemistry</i> , <b>2002</b> , 41, 3565-74	3.2	46
126	Specificity of binding of single-stranded DNA-binding protein to its target. <i>Biochemistry</i> , <b>2012</b> , 51, 1500-9	3.2	45
125	Intersegmental interactions in supercoiled DNA: atomic force microscope study. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 263-70	3.1	45
124	Nanomedicine and protein misfolding diseases. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2005</b> , 1, 300-5	6	45
123	Effect of spermidine on misfolding and interactions of alpha-synuclein. <i>PLoS ONE</i> , <b>2012</b> , 7, e38099	3.7	43
122	Nanoprobng of $\beta$ synuclein misfolding and aggregation with atomic force microscopy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2011</b> , 7, 146-52	6	43
121	DNA topology and geometry in Flp and Cre recombination. <i>Journal of Molecular Biology</i> , <b>2006</b> , 357, 1089-104	6.1	43
120	Nanoscale structure and dynamics of ABOBEC3G complexes with single-stranded DNA. <i>Biochemistry</i> , <b>2012</b> , 51, 6432-40	3.2	41
119	Effect of DNA supercoiling on the geometry of holliday junctions. <i>Biochemistry</i> , <b>2006</b> , 45, 12998-3006	3.2	41
118	Evidence for nonrandom behavior in 208-12 subsaturated nucleosomal array populations analyzed by AFM. <i>Biochemistry</i> , <b>1999</b> , 38, 15756-63	3.2	41

117	High-speed atomic force microscopy reveals structural dynamics of $\beta$ -Synuclein monomers and dimers. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 123322	3.9	40
116	Structure of branched DNA molecules: gel retardation and atomic force microscopy studies. <i>Journal of Molecular Biology</i> , <b>1999</b> , 292, 75-86	6.5	40
115	Molecular mechanism of misfolding and aggregation of A $\beta$ (13-23). <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 6175-86	3.4	39
114	Nanoimaging for protein misfolding diseases. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2010</b> , 2, 526-43	9.2	39
113	Nanoimaging for protein misfolding and related diseases. <i>Journal of Cellular Biochemistry</i> , <b>2006</b> , 99, 52-70	7.7	39
112	Self-assembly of the full-length amyloid A $\beta$ 2 protein in dimers. <i>Nanoscale</i> , <b>2016</b> , 8, 18928-18937	7.7	39
111	Proteolytic antibody light chains alter beta-amyloid aggregation and prevent cytotoxicity. <i>Biochemistry</i> , <b>2004</b> , 43, 9999-10007	3.2	37
110	"Antiparallel" DNA loop in gal repressosome visualized by atomic force microscopy. <i>Journal of Molecular Biology</i> , <b>2003</b> , 334, 53-63	6.5	37
109	Direct Detection of $\beta$ -Synuclein Dimerization Dynamics: Single-Molecule Fluorescence Analysis. <i>Biophysical Journal</i> , <b>2015</b> , 108, 2038-47	2.9	36
108	Atomic force microscopy studies of APOBEC3G oligomerization and dynamics. <i>Journal of Structural Biology</i> , <b>2013</b> , 184, 217-25	3.4	36
107	Visual analysis of concerted cleavage by type IIF restriction enzyme SfiI in subsecond time region. <i>Biophysical Journal</i> , <b>2011</b> , 101, 2992-8	2.9	36
106	DNA strand arrangement within the SfiI-DNA complex: atomic force microscopy analysis. <i>Biochemistry</i> , <b>2006</b> , 45, 152-8	3.2	36
105	Nanoprobing of the effect of Cu(2+) cations on misfolding, interaction and aggregation of amyloid $\beta$ peptide. <i>Journal of NeuroImmune Pharmacology</i> , <b>2013</b> , 8, 262-73	6.9	35
104	The role of histone H4 biotinylation in the structure of nucleosomes. <i>PLoS ONE</i> , <b>2011</b> , 6, e16299	3.7	35
103	A novel pathway for amyloids self-assembly in aggregates at nanomolar concentration mediated by the interaction with surfaces. <i>Scientific Reports</i> , <b>2017</b> , 7, 45592	4.9	34
102	Direct visualization of the EcoRII-DNA triple synaptic complex by atomic force microscopy. <i>Biochemistry</i> , <b>2007</b> , 46, 11128-36	3.2	34
101	Atomic force microscopy analysis of the Huntington protein nanofibril formation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2005</b> , 1, 52-7	6	34
100	Atomic force microscopy of DNA and protein-DNA complexes using functionalized mica substrates. <i>Methods in Molecular Biology</i> , <b>2001</b> , 148, 569-78	1.4	34

99	Remodeling of RecG Helicase at the DNA Replication Fork by SSB Protein. <i>Scientific Reports</i> , <b>2015</b> , 5, 9625	4.9	33
98	βSynuclein misfolding assessed with single molecule AFM force spectroscopy: effect of pathogenic mutations. <i>Biochemistry</i> , <b>2013</b> , 52, 7377-86	3.2	33
97	DNA recombination: holliday junctions dynamics and branch migration. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 43130-4	5.4	32
96	Hyaluronan conformations on surfaces: effect of surface charge and hydrophobicity. <i>Carbohydrate Research</i> , <b>2005</b> , 340, 929-41	2.9	31
95	Imaging of DNA and Protein-DNA Complexes with Atomic Force Microscopy. <i>Critical Reviews in Eukaryotic Gene Expression</i> , <b>2016</b> , 26, 63-96	1.3	30
94	Nano-immunoassay with improved performance for detection of cancer biomarkers. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 167-73	6	29
93	Novel polymer linkers for single molecule AFM force spectroscopy. <i>Methods</i> , <b>2013</b> , 60, 161-8	4.6	28
92	The structure of misfolded amyloidogenic dimers: computational analysis of force spectroscopy data. <i>Biophysical Journal</i> , <b>2014</b> , 107, 2903-2910	2.9	28
91	Supercoiling-induced DNA bending. <i>Biochemistry</i> , <b>2004</b> , 43, 10664-8	3.2	28
90	Molecular mechanism underlying RAG1/RAG2 synaptic complex formation. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 20956-65	5.4	26
89	Atomic force microscopy study of the effects of Mg(2+) and other divalent cations on the end-to-end DNA interactions. <i>Biochemistry</i> , <b>2002</b> , 41, 11372-8	3.2	26
88	Effect of electrostatics on aggregation of prion protein Sup35 peptide. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 164205	1.8	25
87	Nanoscale dynamics of centromere nucleosomes and the critical roles of CENP-A. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 94-103	20.1	24
86	Visualization of DNA and protein-DNA complexes with atomic force microscopy. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1117, 367-84	1.4	24
85	DNA synapsis through transient tetramerization triggers cleavage by Ecl18kl restriction enzyme. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 7142-54	20.1	24
84	Nanotools for megaproblems: probing protein misfolding diseases using nanomedicine modus operandi. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 2505-22	5.6	24
83	Polymorphism of amyloid fibrils formed by a peptide from the yeast prion protein Sup35: AFM and Tip-Enhanced Raman Scattering studies. <i>Ultramicroscopy</i> , <b>2016</b> , 165, 26-33	3.1	23
82	Clostridium taeniosporum spore ribbon-like appendage structure, composition and genes. <i>Molecular Microbiology</i> , <b>2007</b> , 63, 629-43	4.1	22

81	SSB and the RecG DNA helicase: an intimate association to rescue a stalled replication fork. <i>Protein Science</i> , <b>2017</b> , 26, 638-649	6.3	21
80	Visualization of hemiknot DNA structure with an atomic force microscope. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 4902-9	20.1	21
79	Effect of acidic pH on the stability of $\beta$ synuclein dimers. <i>Biopolymers</i> , <b>2016</b> , 105, 715-24	2.2	21
78	Assembly of $\beta$ synuclein aggregates on phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2019</b> , 1867, 802-812	4	20
77	Nanoprobing of misfolding and interactions of amyloid $\beta$ 2 protein. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 871-8	6	20
76	Interaction of APOBEC3A with DNA assessed by atomic force microscopy. <i>PLoS ONE</i> , <b>2014</b> , 9, e99354	3.7	20
75	A technique for stable adhesion of DNA to a modified graphite surface for imaging by scanning tunneling microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1991</b> , 9, 1288		20
74	Nanoscale Nucleosome Dynamics Assessed with Time-lapse AFM. <i>Biophysical Reviews</i> , <b>2014</b> , 6, 181-190	3.7	19
73	Interarm interaction of DNA cruciform forming at a short inverted repeat sequence. <i>Biophysical Journal</i> , <b>2003</b> , 85, 402-8	2.9	19
72	Nano-assembly of amyloid $\beta$ peptide: role of the hairpin fold. <i>Scientific Reports</i> , <b>2017</b> , 7, 2344	4.9	18
71	Computational Model and Dynamics of Monomeric Full-Length APOBEC3G. <i>ACS Central Science</i> , <b>2017</b> , 3, 1180-1188	16.8	18
70	Interaction of the Zalpha domain of human ADAR1 with a negatively supercoiled plasmid visualized by atomic force microscopy. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 4704-12	20.1	18
69	A flexible nanoarray approach for the assembly and probing of molecular complexes. <i>Biophysical Journal</i> , <b>2015</b> , 108, 2333-9	2.9	17
68	Nanoimaging for prion related diseases. <i>Prion</i> , <b>2010</b> , 4, 265-74	2.3	17
67	Structure of three-way DNA junctions. 1. Non-planar DNA geometry. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1994</b> , 11, 1175-89	3.6	17
66	Supported Lipid Bilayers for Atomic Force Microscopy Studies. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1814, 129-143	1.4	16
65	Direct AFM Visualization of the Nanoscale Dynamics of Biomolecular Complexes. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51,	3	16
64	APOBEC3G Interacts with ssDNA by Two Modes: AFM Studies. <i>Scientific Reports</i> , <b>2015</b> , 5, 15648	4.9	16

63	Structure of three-way DNA junctions. 2. Effects of extra bases and mismatches. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1994</b> , 12, 131-43	3.6	16
62	Neuronal-derived extracellular vesicles are enriched in the brain and serum of HIV-1 transgenic rats. <i>Journal of Extracellular Vesicles</i> , <b>2020</b> , 9, 1703249	16.4	16
61	Dynamics of the Interaction of RecG Protein with Stalled Replication Forks. <i>Biochemistry</i> , <b>2018</b> , 57, 1967-1976	3.2	15
60	Site-specific labeling of supercoiled DNA. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, e111	20.1	15
59	Role of monomer arrangement in the amyloid self-assembly. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 218-28	4	14
58	Fibrillogenesis of huntingtin and other glutamine containing proteins. <i>Sub-Cellular Biochemistry</i> , <b>2012</b> , 65, 225-51	5.5	14
57	Nanoscale Characterization of Interaction of APOBEC3G with RNA. <i>Biochemistry</i> , <b>2017</b> , 56, 1473-1481	3.2	13
56	Structural heterogeneity of pyrimidine/purine-biased DNA sequence analyzed by atomic force microscopy. <i>FEBS Journal</i> , <b>2002</b> , 269, 3632-6		13
55	Nucleosomes structure and dynamics: effect of CHAPS. <i>International Journal of Biochemistry and Molecular Biology</i> , <b>2011</b> , 2, 129-137	0.4	13
54	Assembly of the SLIP1-SLBP complex on histone mRNA requires heterodimerization and sequential binding of SLBP followed by SLIP1. <i>Biochemistry</i> , <b>2013</b> , 52, 520-36	3.2	12
53	Amyloid misfolding, aggregation, and the early onset of protein deposition diseases: insights from AFM experiments and computational analyses. <i>AIMS Molecular Science</i> , <b>2015</b> , 2, 190-210	0.9	12
52	Single-molecule selection and recovery of structure-specific antibodies using atomic force microscopy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2007</b> , 3, 192-7	6	12
51	Interaction of A $\beta$ 2 with Membranes Triggers the Self-Assembly into Oligomers. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	11
50	AFM Probing of Amyloid-Beta 42 Dimers and Trimers. <i>Frontiers in Molecular Biosciences</i> , <b>2020</b> , 7, 69	5.6	11
49	Probing of miniPEGEPNA-DNA Hybrid Duplex Stability with AFM Force Spectroscopy. <i>Biochemistry</i> , <b>2016</b> , 55, 1523-8	3.2	11
48	Quantitative analyses of RAG-RSS interactions and conformations revealed by atomic force microscopy. <i>Biochemistry</i> , <b>2008</b> , 47, 11204-11	3.2	11
47	Aminomodified Probes for Atomic Force Microscopy <b>2002</b> , 2, 227-234		11
46	Atomic force microscopy-based characterization of the interaction of PriA helicase with stalled DNA replication forks. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 6043-6052	5.4	10



45	Single-molecule probing of amyloid nano-ensembles using the polymer nanoarray approach. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 16387-16394	3.6	9
44	Centromere chromatin: a loose grip on the nucleosome?. <i>Nature Structural and Molecular Biology</i> , <b>2014</b> , 21, 8	17.6	9
43	Dynamic properties of pH-dependent structural organization of the amyloidogenic beta-protein (1-40). <i>Prion</i> , <b>2009</b> , 3, 31-43	2.3	9
42	Structure and dynamics of dinucleosomes assessed by atomic force microscopy. <i>Journal of Amino Acids</i> , <b>2012</b> , 2012, 650840		9
41	Force clamp approach for characterization of nano-assembly in amyloid beta 42 dimer. <i>Nanoscale</i> , <b>2019</b> , 11, 12259-12265	7.7	8
40	Atomic force microscopy analysis of the Huntington protein nanofibril formation. <i>Disease-a-Month</i> , <b>2005</b> , 51, 374-85	4.4	8
39	Molecular Model for the Surface-Catalyzed Protein Self-Assembly. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 366-372	3.4	8
38	Cholesterol in Membranes Facilitates Aggregation of Amyloid $\beta$ Protein at Physiologically Relevant Concentrations. <i>ACS Chemical Neuroscience</i> , <b>2021</b> , 12, 506-516	5.7	8
37	Dynamics of synaptic Sfil-DNA complex: single-molecule fluorescence analysis. <i>Biophysical Journal</i> , <b>2007</b> , 92, 3241-50	2.9	7
36	Structural analysis of hemicatenated DNA loops. <i>BMC Structural Biology</i> , <b>2002</b> , 2, 7	2.7	7
35	Probing of Amyloid A $\beta$ (14-23) Trimers by Single-Molecule Force Spectroscopy <b>2016</b> , 1,		7
34	Chromatin imaging with time-lapse atomic force microscopy. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1288, 27-42	1.4	6
33	Single-Molecule Force Spectroscopy Studies of APOBEC3A-Single-Stranded DNA Complexes. <i>Biochemistry</i> , <b>2016</b> , 55, 3102-6	3.2	6
32	Probing Intermolecular Interactions within the Amyloid $\beta$ Trimer Using a Tethered Polymer Nanoarray. <i>Bioconjugate Chemistry</i> , <b>2018</b> , 29, 2755-2762	6.3	6
31	Insight into dynamics of APOBEC3G protein in complexes with DNA assessed by high speed AFM. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4016-4024	5.1	5
30	Sequence-dependent nucleosome nanoscale structure characterized by atomic force microscopy. <i>FASEB Journal</i> , <b>2019</b> , 33, 10916-10923	0.9	5
29	A Metal-free Click Chemistry Approach for the Assembly and Probing of Biomolecules. <i>Journal of Nature and Science</i> , <b>2016</b> , 2,		5
28	Spontaneous self-assembly of amyloid $\beta$ (1-40) into dimers. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 3892-3899	5.1	5

27	Probing The Structure And Dynamics Of Nucleosomes Using Atomic Force Microscopy Imaging. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	4
26	Nanoimaging for Molecular Pharmaceuticals of Alzheimer $\beta$ and other Neurodegenerative Disorders. <i>Journal of Molecular Pharmaceutics &amp; Organic Process Research</i> , <b>2013</b> , 1,		4
25	Imaging DNA molecules chemically bound to a mica surface <b>1992</b> ,		4
24	Polymer Nanoarray Approach for the Characterization of Biomolecular Interactions. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1814, 63-74	1.4	4
23	RNA nanotechnology to build a dodecahedral genome of single-stranded RNA virus. <i>RNA Biology</i> , <b>2021</b> , 18, 2390-2400	4.8	4
22	Nanoscale interaction of RecG with mobile fork DNA. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1318-1324	5.1	3
21	Two C-terminal sequence variations determine differential neurotoxicity between human and mouse $\beta$ synuclein. <i>Molecular Neurodegeneration</i> , <b>2020</b> , 15, 49	19	3
20	Topographically smooth and stable supported lipid bilayer for high-resolution AFM studies. <i>Methods</i> , <b>2021</b> , 197, 13-13	4.6	3
19	Phospholipid membranes promote the early stage assembly of $\beta$ synuclein aggregates		2
18	Two C-terminal sequence variations determine differential neurotoxicity between human and mouse $\beta$ synuclein		2
17	The Enzymatic Activity of APOBE3G Multimers. <i>Scientific Reports</i> , <b>2018</b> , 8, 17953	4.9	2
16	AFM Imaging in Liquid of DNA and ProteinDNA Complexes231-258		2
15	AFM Methods for DNA Analysis <b>2000</b> , 1-24		1
14	A molecular model of the surface-assisted protein aggregation process		1
13	Nanoscale Dynamics of Centromere Nucleosomes and the Critical Roles of CENP-A		1
12	Dynamics of the PriA Helicase at Stalled DNA Replication Forks. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4299-4307	3.4	1
11	Transcription factor NF- $\kappa$ B unravels nucleosomes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2021</b> , 1865, 129934	4	1
10	High-speed atomic force microscopy directly visualizes conformational dynamics of the HIV Vif protein in complex with three host proteins. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 11995-12001	5.4	0

9	Assembly of Centromere Chromatin for Characterization by High-Speed Time-Lapse Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1814, 225-242	1.4	○
8	DNA Looping Mediated by Site-Specific Sfil-DNA Interactions. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4645-4653	3.4	○
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5	Protein misfolding and aggregation: Insight from single molecule study. <i>FASEB Journal</i> , <b>2009</b> , 23, 850.7	0.9	
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3	Atomic Force Microscopy Methods for DNA Analysis <b>2019</b> , 1-31		
2	Restriction of RecG translocation by DNA mispairing. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2021</b> , 1865, 130006	4	
1	Characterize the Interaction of the DNA Helicase PriA with the Stalled DNA Replication Fork Using Atomic Force Microscopy. <i>Bio-protocol</i> , <b>2021</b> , 11, e3940	0.9	