Jörg Langowski

List of Publications by Year in descending order

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		31976	48315
193	9,529	53	88
papers	citations	h-index	g-index
195	195	195	7372
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	DNA flexibility studied by covalent closure of short fragments into circles Proceedings of the National Academy of Sciences of the United States of America, 1981, 78, 4833-4837.	7.1	467
2	Anomalous diffusion of fluorescent probes inside living cell nuclei investigated by spatially-resolved fluorescence correlation spectroscopy. Journal of Molecular Biology, 2000, 298, 677-689.	4.2	424
3	Long-range compaction and flexibility of interphase chromatin in budding yeast analyzed by high-resolution imaging techniques. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16495-16500.	7.1	274
4	Action at a distance: DNA-looping and initiation of transcription. Trends in Biochemical Sciences, 1995, 20, 500-506.	7. 5	271
5	DNA Basepair Step Deformability Inferred from Molecular Dynamics Simulations. Biophysical Journal, 2003, 85, 2872-2883.	0.5	237
6	Assessing the Flexibility of Intermediate Filaments by Atomic Force Microscopy. Journal of Molecular Biology, 2004, 335, 1241-1250.	4.2	210
7	Compartmentalization of Interphase Chromosomes Observed in Simulation and Experiment. Journal of Molecular Biology, 1999, 285, 1053-1065.	4.2	190
8	Nucleosome accessibility governed by the dimer/tetramer interface. Nucleic Acids Research, 2011, 39, 3093-3102.	14.5	175
9	Nucleosome disassembly intermediates characterized by single-molecule FRET. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15308-15313.	7.1	171
10	Imaging fluorescence (cross-) correlation spectroscopy in live cells and organisms. Nature Protocols, 2015, 10, 1948-1974.	12.0	164
11	Computer Simulation of the 30-Nanometer Chromatin Fiber. Biophysical Journal, 2002, 82, 2847-2859.	0.5	161
12	Computation of writhe in modeling of supercoiled DNA. Biopolymers, 2000, 54, 307-317.	2.4	151
13	Sequence-dependent elastic properties of DNA 1 1Edited by I. Tinoco. Journal of Molecular Biology, 2000, 299, 695-709.	4.2	149
14	Molecular and Biophysical Characterization of Assembly-Starter Units of Human Vimentin. Journal of Molecular Biology, 2004, 340, 97-114.	4.2	148
15	Counting Nucleosomes in Living Cells with a Combination of Fluorescence Correlation Spectroscopy and Confocal Imaging. Journal of Molecular Biology, 2003, 334, 229-240.	4.2	147
16	Kinetics of DNA supercoiling studied by Brownian dynamics simulation. Biopolymers, 1994, 34, 415-433.	2.4	146
17	Protein Diffusion in Mammalian Cell Cytoplasm. PLoS ONE, 2011, 6, e22962.	2.5	145
18	Mapping eGFP Oligomer Mobility in Living Cell Nuclei. PLoS ONE, 2009, 4, e5041.	2.5	143

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19	Spontaneous Access to DNA Target Sites in Folded Chromatin Fibers. Journal of Molecular Biology, 2008, 379, 772-786.	4.2	135
20	A Brownian Dynamics Program for the Simulation of Linear and Circular DNA and Other Wormlike Chain Polyelectrolytes. Biophysical Journal, 1998, 74, 780-788.	0.5	127
21	Analyzing Intracellular Binding and Diffusion with Continuous Fluorescence Photobleaching. Biophysical Journal, 2003, 84, 3353-3363.	0.5	125
22	Nuclear architecture and the induction of chromosomal aberrations. Mutation Research - Reviews in Genetic Toxicology, 1996, 366, 97-116.	2.9	115
23	IL-2 and IL-15 receptor Â-subunits are coexpressed in a supramolecular receptor cluster in lipid rafts of T cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11082-11087.	7.1	114
24	Histone Acetylation Regulates Chromatin Accessibility: Role of H4K16 in Inter-nucleosome Interaction. Biophysical Journal, 2017, 112, 450-459.	0.5	111
25	Polymer chain models of DNA and chromatin. European Physical Journal E, 2006, 19, 241-249.	1.6	109
26	Chromosome structure predicted by a polymer model. Physical Review E, 1998, 57, 5888-5896.	2.1	107
27	Quaternary Structure of Casein Kinase 2. Journal of Biological Chemistry, 1995, 270, 8345-8352.	3.4	104
28	Role of Histone Tails in Structural Stability of the Nucleosome. PLoS Computational Biology, 2011, 7, e1002279.	3.2	104
29	Two-Hybrid Fluorescence Cross-Correlation Spectroscopy Detects Protein-Protein Interactions In Vivo. ChemPhysChem, 2005, 6, 984-990.	2.1	86
30	Analysis of Ligand Binding by Two-Colour Fluorescence Cross-Correlation Spectroscopy. Single Molecules, 2002, 3, 49-61.	0.9	85
31	Critical Effect of the N2 Amino Group on Structure, Dynamics, and Elasticity of DNA Polypurine Tracts. Biophysical Journal, 2002, 82, 2592-2609.	0.5	84
32	Polylysine-coated mica can be used to observe systematic changes in the supercoiled DNA conformation by scanning force microscopy in solution. Nucleic Acids Research, 2003, 31, 137e-137.	14.5	84
33	Rapid, Diffusional Shuttling of Poly(A) RNA between Nuclear Speckles and the Nucleoplasm. Molecular Biology of the Cell, 2006, 17, 1239-1249.	2.1	84
34	A Quantitative Kinetic Model for the in Vitro Assembly of Intermediate Filaments from Tetrameric Vimentin. Journal of Biological Chemistry, 2007, 282, 18563-18572.	3.4	84
35	Deconstructing the Late Phase of Vimentin Assembly by Total Internal Reflection Fluorescence Microscopy (TIRFM). PLoS ONE, 2011, 6, e19202.	2.5	82
36	Coarseâ€grained force field for the nucleosome from selfâ€consistent multiscaling. Journal of Computational Chemistry, 2008, 29, 1429-1439.	3.3	77

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37	Interactions between Merozoite Surface Proteins 1, 6, and 7 of the Malaria ParasitePlasmodium falciparum. Journal of Biological Chemistry, 2006, 281, 31517-31527.	3.4	71
38	Superhelix dimensions of a 1868 base pair plasmid determined by scanning force microscopy in air and in aqueous solution. Nucleic Acids Research, 1997, 25, 1736-1744.	14.5	70
39	The Role of Histone Tails in the Nucleosome: A Computational Study. Biophysical Journal, 2014, 107, 2911-2922.	0.5	70
40	Computational modeling of the chromatin fiber. Seminars in Cell and Developmental Biology, 2007, 18, 659-667.	5.0	69
41	Salt-Dependent DNA Superhelix Diameter Studied by Small Angle Neutron Scattering Measurements and Monte Carlo Simulations. Biophysical Journal, 1998, 75, 3057-3063.	0.5	67
42	Common structural features of different viroids: serial arrangement of double helical sections and internal loops. Nucleic Acids Research, 1978, 5, 1589-1610.	14.5	66
43	Looping Dynamics of Linear DNA Molecules and the Effect of DNA Curvature: A Study by Brownian Dynamics Simulation. Biophysical Journal, 1998, 74, 773-779.	0.5	66
44	Genome Function and Nuclear Architecture: From Gene Expression to Nanoscience. Genome Research, 2003, 13, 1029-1041.	5.5	66
45	The performance of 2D array detectors for light sheet based fluorescence correlation spectroscopy. Optics Express, 2013, 21, 8652.	3.4	66
46	The influence of sequences adjacent to the recognition site on the cleavage of oligodeoxynucleotides by the EcoRI endonuclease. FEBS Journal, 1984, 140, 83-92.	0.2	65
47	Unwrapping of Nucleosomal DNA Ends: A Multiscale Molecular Dynamics Study. Biophysical Journal, 2012, 102, 849-858.	0.5	65
48	Facilitated Diffusion of DNA-Binding Proteins. Physical Review Letters, 2006, 96, 018104.	7.8	64
49	Divalent Ion and Thermally Induced DNA Conformational Polymorphism on Single-walled Carbon Nanotubes. Macromolecules, 2007, 40, 6731-6739.	4.8	64
50	Chromatin Compaction at the Mononucleosome Level. Biochemistry, 2006, 45, 1591-1598.	2.5	62
51	Opposing roles of H3- and H4-acetylation in the regulation of nucleosome structure—a FRET study. Nucleic Acids Research, 2015, 43, 1433-1443.	14.5	62
52	Structural Variability of Nucleosomes Detected by Single-Pair Förster Resonance Energy Transfer: Histone Acetylation, Sequence Variation, and Salt Effects. Journal of Physical Chemistry B, 2009, 113, 2604-2613.	2.6	60
53	Salt effects on internal motions of superhelical and linear pUC8 DNA. Biophysical Chemistry, 1987, 27, 263-271.	2.8	59
54	Configurational and dynamic properties of different length superhelical DNAs measured by dynamic light scattering. Biophysical Chemistry, 1989, 34, 9-18.	2.8	58

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55	High precision FRET studies reveal reversible transitions in nucleosomes between microseconds and minutes. Nature Communications, 2018, 9, 4628.	12.8	58
56	Chromosome positioning and the clustering of functionally related loci in yeast is driven by chromosomal interactions. Nucleus, 2012, 3, 370-383.	2.2	56
57	Dual-Color Fluorescence Cross-Correlation Spectroscopy on a Single Plane Illumination Microscope (SPIM-FCCS). Optics Express, 2014, 22, 2358.	3.4	54
58	DNA Curvature in Solution Measured by Fluorescence Resonance Energy Transfer. Biochemistry, 1998, 37, 8173-8179.	2.5	51
59	Vimentin Intermediate Filament Formation: In Vitro Measurement and Mathematical Modeling of the Filament Length Distribution during Assembly. Langmuir, 2009, 25, 8817-8823.	3.5	51
60	Neutron and light-scattering studies of DNA gyrase and its complex with DNA. Journal of Molecular Biology, 1990, 211, 211-220.	4.2	49
61	DNA binding and oligomerization of NtrC studied by fluorescence anisotropy and fluorescence correlation spectroscopy. Nucleic Acids Research, 1998, 26, 1373-1381.	14.5	48
62	Conformation of the c-Fos/c-Jun Complex In Vivo: A Combined FRET, FCCS, and MD-Modeling Study. Biophysical Journal, 2008, 94, 2859-2868.	0.5	48
63	The statistical-mechanics of chromosome conformation capture. Nucleus, 2013, 4, 390-398.	2.2	47
64	Brownian Dynamics Simulation of DNA Unrolling from the Nucleosome. Journal of Physical Chemistry B, 2009, 113, 2639-2646.	2.6	46
65	EGFP oligomers as natural fluorescence and hydrodynamic standards. Scientific Reports, 2016, 6, 33022.	3.3	46
66	Light optical precision measurements of the active and inactive Prader–Willi syndrome imprinted regions in human cell nuclei. Differentiation, 2008, 76, 66-82.	1.9	45
67	Superhelix organization by DNA curvature as measured through site-specific labeling 1 1Edited by J. Karn. Journal of Molecular Biology, 1998, 275, 601-611.	4.2	44
68	Trajectory of Nucleosomal Linker DNA Studied by Fluorescence Resonance Energy Transfer. Biochemistry, 2001, 40, 6921-6928.	2.5	44
69	Mechanism of Hairpin-Duplex Conversion for the HIV-1 Dimerization Initiation Site. Journal of Biological Chemistry, 2005, 280, 40112-40121.	3.4	44
70	Dynamics of superhelical DNA studied by photon correlation spectroscopy. Biophysical Chemistry, 1986, 25, 191-200.	2.8	43
71	Atomistic simulations of nucleosomes. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2013, 3, 378-392.	14.6	42
72	Scanning force microscopy of Escherichia coli RNA polymerase \hat{A} - $\hat{I}f$ 54 holoenzyme complexes with DNA in buffer and in air 1 1Edited by W. Baumeister. Journal of Molecular Biology, 1998, 283, 821-836.	4.2	41

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73	DNA Deformability at the Base Pair Level. Journal of the American Chemical Society, 2004, 126, 4124-4125.	13.7	41
74	Histone―and DNA sequenceâ€dependent stability of nucleosomes studied by singleâ€pair FRET. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83, 839-846.	1.5	40
75	Histone Depletion Facilitates Chromatin Loops on the Kilobasepair Scale. Biophysical Journal, 2010, 99, 2995-3001.	0.5	39
76	FPGA implementation of a 32x32 autocorrelator array for analysis of fast image series. Optics Express, 2012, 20, 17767.	3.4	39
77	Inhibition of Eco RI action by polynucleotides. A characterization of the non-specific binding of the enzyme to DNA. Nucleic Acids Research, 1980, 8, 4727-4736.	14.5	38
78	Solution structure and dynamics of DNA topoisomers: Dynamic light scattering studies and Monte Carlo simulations. Biopolymers, 1994, 34, 639-646.	2.4	38
79	Invasive breast cancer cells exhibit increased mobility of the actinâ€binding protein CapG. International Journal of Cancer, 2008, 122, 1476-1482.	5.1	38
80	Single-pair fluorescence resonance energy transfer of nucleosomes in free diffusion: Optimizing stability and resolution of subpopulations. Analytical Biochemistry, 2007, 368, 193-204.	2.4	38
81	Protein–Protein Interactions Determined by Fluorescence Correlation Spectroscopy. Methods in Cell Biology, 2008, 85, 471-484.	1.1	38
82	Chromosome dynamics, molecular crowding, and diffusion in the interphase cell nucleus: a Monte Carlo lattice simulation study. Chromosome Research, 2011, 19, 63-81.	2.2	38
83	The effect of several nucleic acid binding drugs on the cleavage of d(GGAATTCC) and pBR 322 by the Eco RI restriction endonuclease. Nucleic Acids Research, 1981, 9, 6115-6127.	14.5	36
84	Spatial visualization of DNA in solution. Journal of Structural Biology, 1991, 107, 15-21.	2.8	36
85	Transient cleavage kinetics of the Eco RI restriction endonuclease measured in a pulsed quenchflow apparatus: enzyme concentration-dependent activity change. Nucleic Acids Research, 1981, 9, 3483-3490.	14.5	35
86	Dynamics of the nucleosomal histone H3 N-terminal tail revealed by high precision single-molecule FRET. Nucleic Acids Research, 2020, 48, 1551-1571.	14.5	34
87	Maximum-entropy decomposition of fluorescence correlation spectroscopy data: application to liposome?human serum albumin association. European Biophysics Journal, 2004, 33, 59-67.	2.2	33
88	Ligand Binding Shifts Highly Mobile Retinoid X Receptor to the Chromatin-Bound State in a Coactivator-Dependent Manner, as Revealed by Single-Cell Imaging. Molecular and Cellular Biology, 2014, 34, 1234-1245.	2.3	33
89	Solution studies of elongation factor Tu from the extreme halophile Halobacterium marismortui. Journal of Molecular Biology, 1992, 223, 361-371.	4.2	32
90	Chromatin structure and chromosome aberrations: modeling of damage induced by isotropic and localized irradiation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 404, 77-88.	1.0	32

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91	Conformation of Reconstituted Mononucleosomes and Effect of Linker Histone H1 Binding Studied by Scanning Force Microscopy. Biophysical Journal, 2003, 85, 4012-4022.	0.5	32
92	[21] Dynamic light scattering for study of solution conformation and dynamics of superhelical DNA. Methods in Enzymology, 1992, 211, 430-448.	1.0	31
93	Structural analysis of mouse rDNA: coincidence between nuclease hypersensitive sites, DNA curvature and regulatory elements in the intergenic spacer. Nucleic Acids Research, 1997, 25, 511-517.	14.5	31
94	DNA-loop Formation on Nucleosomes Shown by in situ Scanning Force Microscopy of Supercoiled DNA. Journal of Molecular Biology, 2005, 345, 695-706.	4.2	31
95	Parvovirus Induced Alterations in Nuclear Architecture and Dynamics. PLoS ONE, 2009, 4, e5948.	2.5	31
96	Monte Carlo simulation of chromatin stretching. Physical Review E, 2006, 73, 041927.	2.1	30
97	Anomalous diffusion in the interphase cell nucleus: The effect of spatial correlations of chromatin. Journal of Chemical Physics, 2010, 133, 025101.	3.0	29
98	Assembly Kinetics of Vimentin Tetramers to Unit-Length Filaments: A Stopped-Flow Study. Biophysical Journal, 2018, 114, 2408-2418.	0.5	29
99	Deformational dynamics and nmr relaxation of supercoiled DNAs. Biopolymers, 1985, 24, 1023-1056.	2.4	27
100	The Effect of the DNA Conformation on the Rate of NtrC activated Transcription of Escherichia coli RNA Polymerase·σ54 Holoenzyme. Journal of Molecular Biology, 2000, 300, 709-725.	4.2	25
101	Kinetics of protein binding in solid-phase immunoassays: Theory. Journal of Chemical Physics, 2005, 122, 214715.	3.0	25
102	Closing the Gap between Single Molecule and Bulk FRET Analysis of Nucleosomes. PLoS ONE, 2013, 8, e57018.	2.5	25
103	Solution structure of glyceraldehyde-3-phosphate dehydrogenase from Haloarcula vallismortis. Biophysical Chemistry, 1995, 54, 219-227.	2.8	23
104	DNA supercoiling, localized bending and thermal fluctuations. Trends in Biochemical Sciences, 1996, 21, 50.	7.5	23
105	Salt-Dependent Compaction of Di- and Trinucleosomes Studied by Small-Angle Neutron Scattering. Biophysical Journal, 2000, 79, 584-594.	0.5	23
106	Dynamics of the CapG actin-binding protein in the cell nucleus studied by FRAP and FCS. Chromosome Research, 2008, 16, 427-437.	2,2	23
107	Filamentous Biopolymers on Surfaces: Atomic Force Microscopy Images Compared with Brownian Dynamics Simulation of Filament Deposition. PLoS ONE, 2009, 4, e7756.	2.5	23
108	Kinetics of Site–Site Interactions in Supercoiled DNA with Bent Sequences. Journal of Molecular Biology, 2002, 322, 707-718.	4.2	22

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109	How proteins squeeze through polymer networks: A Cartesian lattice study. Journal of Chemical Physics, 2009, 131, 064905.	3.0	22
110	Structure and RNA content of the prosomes. FEBS Letters, 1992, 300, 49-55.	2.8	21
111	Trinucleosome Compaction Studied by Fluorescence Energy Transfer and Scanning Force Microscopy. Biochemistry, 2006, 45, 10838-10846.	2.5	21
112	The conformational state of the nucleosome entry–exit site modulates TATA box-specific TBP binding. Nucleic Acids Research, 2014, 42, 7561-7576.	14.5	21
113	Nucleosome repositioning during differentiation of a human myeloid leukemia cell line. Nucleus, 2017, 8, 188-204.	2.2	21
114	Pre-nucleation crystallization studies on aminoacyl-tRNA synthetases by dynamic light-scattering. Journal of Molecular Biology, 1992, 225, 185-191.	4.2	20
115	Diffusion-Controlled Intrachain Reactions of Supercoiled DNA: Brownian Dynamics Simulations. Biophysical Journal, 2001, 80, 69-74.	0.5	20
116	Organisation of nucleosomal arrays reconstituted with repetitive African green monkey \hat{l}_{\pm} -satellite DNA as analysed by atomic force microscopy. European Biophysics Journal, 2007, 37, 81-93.	2.2	20
117	Widefield High Frame Rate Single-Photon SPAD Imagers for SPIM-FCS. Biophysical Journal, 2018, 114, 2455-2464.	0.5	20
118	Computational Analysis of the Chiral Action of Type II DNA Topoisomerases. Journal of Molecular Biology, 2002, 320, 359-367.	4.2	19
119	Retrotransposon Alu is enriched in the epichromatin of HL-60 cells. Nucleus, 2014, 5, 237-246.	2.2	19
120	Transcriptomes reflect the phenotypes of undifferentiated, granulocyte and macrophage forms of HL-60/S4 cells. Nucleus, 2017, 8, 222-237.	2.2	19
121	Preparation of DNA topoisomers by RP-18 high-performance liquid chromatography. Analytical Biochemistry, 1992, 206, 293-299.	2.4	18
122	Effects of charge-modifying mutations in histone H2A $\hat{l}\pm 3$ -domain on nucleosome stability assessed by single-pair FRET and MD simulations. Scientific Reports, 2017, 7, 13303.	3.3	18
123	Dynamics of a fluorophore attached to superhelical DNA: FCS experiments simulated by Brownian dynamics. Physical Chemistry Chemical Physics, 2009, 11, 10671.	2.8	17
124	Imaging Fos-Jun Transcription Factor Mobility and Interaction in Live Cells by Single Plane Illumination-Fluorescence Cross Correlation Spectroscopy. PLoS ONE, 2015, 10, e0123070.	2.5	17
125	Two Identical Subunits of the EcoRI Restriction Endonuclease Co-operate in the Binding and Cleavage of the Palindromic Substrate. FEBS Journal, 1982, 124, 139-142.	0.2	16
126	Rotational dynamics of curved DNA fragments studied by fluorescence polarization anisotropy. European Biophysics Journal, 2001, 29, 597-606.	2.2	16

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127	Modeling diffusional transport in the interphase cell nucleus. Journal of Chemical Physics, 2007, 127, 045102.	3.0	16
128	Protein Flexibility and Synergy of HMG Domains Underlie U-Turn Bending of DNA by TFAM in Solution. Biophysical Journal, 2018, 114, 2386-2396.	0.5	16
129	Modeling Dynamic Light Scattering of Supercoiled DNA. Macromolecules, 2000, 33, 1459-1466.	4.8	15
130	Modeling of intramolecular reactions of polymers: An efficient method based on Brownian dynamics simulations. Journal of Chemical Physics, 2004, 121, 4951-4960.	3.0	15
131	Defining the epichromatin epitope. Nucleus, 2017, 8, 625-640.	2.2	15
132	Superhelical DNA studied by solution scattering and computer models. Genetica, 1999, 106, 49-55.	1.1	14
133	Spatially confined polymer chains: implications of chromatin fibre flexibility and peripheral anchoring on telomere–telomere interaction. Journal of Physics Condensed Matter, 2006, 18, S245-S252.	1.8	14
134	Note: Multiplexed multiple-tau auto- and cross-correlators on a single field programmable gate array. Review of Scientific Instruments, 2012, 83, 046101.	1.3	14
135	The effect of DNA supercoiling on nucleosome structure and stability. Journal of Physics Condensed Matter, 2015, 27, 064105.	1.8	14
136	In Vitro Assembly Kinetics of Cytoplasmic Intermediate Filaments: A Correlative Monte Carlo Simulation Study. PLoS ONE, 2016, 11, e0157451.	2.5	14
137	Cell Cycle-Dependent Mobility of Cdc45 Determined in vivo by Fluorescence Correlation Spectroscopy. PLoS ONE, 2012, 7, e35537.	2.5	14
138	The in vitro Assembly of Hair Follicle Keratins: Comparison of Cortex and Companion Layer Keratins. Biological Chemistry, 2002, 383, 1373-81.	2.5	13
139	Purification and characterization of wild-type and ts112 mutant protein Illa of human adenovirus 2 expressed in Escherichia coli. Virology, 1990, 175, 222-231.	2.4	12
140	Intrachain Reactions of Supercoiled DNA Simulated by Brownian Dynamics. Biophysical Journal, 2001, 81, 1924-1929.	0.5	12
141	Characterization of simian virus 40 on its infectious entry pathway in cells using fluorescence correlation spectroscopy. Biochemical Society Transactions, 2004, 32, 746-749.	3.4	12
142	Escherichia coli low-copy-number plasmid R1 centromere parC forms a U-shaped complex with its binding protein ParR. Nucleic Acids Research, 2007, 36, 607-615.	14.5	12
143	Kinetics of structural changes in superhelical DNA. Physical Review E, 1998, 58, 3537-3546.	2.1	11
144	Facilitated diffusion of DNA-binding proteins: Simulation of large systems. Journal of Chemical Physics, 2006, 125, 014906.	3.0	11

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145	The role of chromatin conformations in diffusional transport of chromatin-binding proteins: Cartesian lattice simulations. Journal of Chemical Physics, 2008, 128, 155101.	3.0	11
146	Kinetics of intrachain reactions of supercoiled DNA: Theory and numerical modeling. Journal of Chemical Physics, 2001, 114, 5049-5060.	3.0	10
147	Chromosome conformation by crosslinking. Nucleus, 2010, 1, 37-39.	2.2	10
148	Kinetic lattice Monte Carlo simulation of viscoelastic subdiffusion. Journal of Chemical Physics, 2012, 137, 064114.	3.0	10
149	Single plane illumination microscopy as a tool for studying nucleome dynamics. Methods, 2017, 123, 3-10.	3.8	10
150	An elongated model of theXenopus laevistranscription factor IIIA-5S ribosomal RNA complex derived from neutron scattering and hydrodynamic measurements. Nucleic Acids Research, 1988, 16, 8633-8644.	14.5	9
151	Facilitated diffusion of DNA-binding proteins: Efficient simulation with the method of excess collisions. Journal of Chemical Physics, 2006, 124, 134908.	3.0	9
152	Computation of writhe in modeling of supercoiled DNA. , 2000, 54, 307.		9
153	Rigid assembly and Monte Carlo models of stable and unstable chromatin structures: the effect of nucleosomal spacing. Theoretical Chemistry Accounts, 2010, 125, 217-231.	1.4	8
154	Random Motion of Chromatin Is Influenced byÂLamin A Interconnections. Biophysical Journal, 2018, 114, 2465-2472.	0.5	8
155	Structural changes in 16S RNA from Escherichia coli upon unfolding by urea. Biopolymers, 1993, 33, 1747-1755.	2.4	7
156	Rod-Like Shape of Vesicular Stomatitis Virus Matrix Protein. Virology, 1996, 219, 465-470.	2.4	7
157	Physical characterization of plakophilin $\hat{a} \in f1$ reconstituted with and without zinc. FEBS Journal, 2000, 267, 4381-4389.	0.2	7
158	Theory and computational modeling of the 30 nm chromatin fiber. New Comprehensive Biochemistry, 2004, 39, 397-420.	0.1	7
159	DNA bending potentials for loop-mediated nucleosome repositioning. Europhysics Letters, 2012, 97, 38004.	2.0	7
160	Construction of a microprocessor-controlled pulsed quench-flow apparatus for the study of fast chemical and biochemical reactions. Analytical Biochemistry, 1984, 142, 91-97.	2,4	6
161	Product analysis of in vitro ribosomal protein synthesis for the assessment of kinetic parameters. Analytical Biochemistry, 1985, 147, 364-368.	2.4	6
162	Ten microseconds in the life of a superhelix. Journal of Mathematical Chemistry, 1993, 13, 33-43.	1.5	6

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163	The diameter of the DNA superhelix decreases with salt concentration: SANS measurements and Monte Carlo simulations. Journal of Applied Crystallography, 2000, 33, 526-529.	4.5	6
164	DNA damaging capability of hematoporphyrin towards DNAs of various accessibilities. Journal of Photochemistry and Photobiology B: Biology, 2006, 84, 119-127.	3.8	5
165	Induced and repressed genes after irradiation sensitizing by pentoxyphylline. International Journal of Cancer, 2007, 120, 1198-1207.	5.1	4
166	SPIM-FCCS: A Novel Technique to Quantitate Protein-Protein Interaction in Live Cells. Biophysical Journal, 2013, 104, 61a.	0.5	4
167	Spatial Localization of Genes Determined by Intranuclear DNA Fragmentation with the Fusion Proteins Lamin KRED and Histone KRED und Visible Light. International Journal of Medical Sciences, 2013, 10, 1136-1148.	2.5	4
168	Supercoiling couples DNA curvature to the overall shape and the internal motion of the DNA molecule in solution. Computational and Theoretical Chemistry, 1995, 336, 227-234.	1.5	2
169	DNA supercoiling, localized bending and thermal fluctuations. Trends in Biochemical Sciences, 1996, 21, 50.	7.5	2
170	The endonucleolytic reaction catalysed by the EcoRI restriction enzyme is inhibited when the enzyme is in excess over substrate. Biophysics of Structure and Mechanism, 1981, 7, 247-248.	1.9	1
171	Melting under Stress. Biophysical Journal, 2004, 86, 2639-2640.	0.5	1
172	Dual-Color Single Plane Illumination Fluorescence Correlation Spectroscopy (SPIM-FCS) using a Single Photon Detector and Hardware Based Image Processing. Biophysical Journal, 2012, 102, 207a.	0.5	1
173	Watering down a theory. Physics of Life Reviews, 2014, 11, 171-172.	2.8	1
174	Three-Dimensional Organization of Chromosome Territories and the Human Cell Nucleus. , 2000, , 229-238.		1
175	Genome Research and Bioinformatics. , 1998, , 167-187.		1
176	Microprocessor controlled quenched flow apparatus for the study of fast chemical reactions. Fresenius Zeitschrift FÃ $\frac{1}{4}$ r Analytische Chemie, 1982, 311, 364-365.	0.8	0
177	Brownian Dynamics Simulation of FCS Measurements on Single Fluorophore-Labeled Superhelical DNA. Biophysical Journal, 2010, 98, 570a.	0.5	0
178	Nucleosome Dynamics Studied by Free Solution Single Molecule FRET. Biophysical Journal, 2010, 98, 477a.	0.5	0
179	Single Plane Illumination Fluorescence Correlation Spectroscopy (SPIM-FCS) Using a Position-Sensitive Detector. Biophysical Journal, 2011, 100, 469a.	0.5	0
180	Modeling of Particle Number Fluctuations in Entire Cells. Biophysical Journal, 2012, 102, 594a.	0.5	0

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181	Nucleosome Dynamics Studied by Single Pair FRET and Computer Simulations. Biophysical Journal, 2012, 102, 480a.	0.5	O
182	Dynamics of Nucleosome Tails Studied by All-Atom and Coarse-Grained MD Simulations. Biophysical Journal, 2013, 104, 6a.	0.5	0
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