

# Jörg Langowski

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1724941/publications.pdf>

Version: 2024-02-01

192  
papers

9,529  
citations

31902

53  
h-index

48187

88  
g-index

195  
all docs

195  
docs citations

195  
times ranked

7372  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of the nucleosomal histone H3 N-terminal tail revealed by high precision single-molecule FRET. <i>Nucleic Acids Research</i> , 2020, 48, 1551-1571.	6.5	34
2	Protein Flexibility and Synergy of HMG Domains Underlie U-Turn Bending of DNA by TFAM in Solution. <i>Biophysical Journal</i> , 2018, 114, 2386-2396.	0.2	16
3	High precision FRET studies reveal reversible transitions in nucleosomes between microseconds and minutes. <i>Nature Communications</i> , 2018, 9, 4628.	5.8	58
4	Widefield High Frame Rate Single-Photon SPAD Imagers for SPIM-FCS. <i>Biophysical Journal</i> , 2018, 114, 2455-2464.	0.2	20
5	Random Motion of Chromatin Is Influenced by Lamin A Interconnections. <i>Biophysical Journal</i> , 2018, 114, 2465-2472.	0.2	8
6	Assembly Kinetics of Vimentin Tetramers to Unit-Length Filaments: A Stopped-Flow Study. <i>Biophysical Journal</i> , 2018, 114, 2408-2418.	0.2	29
7	Nucleosome repositioning during differentiation of a human myeloid leukemia cell line. <i>Nucleus</i> , 2017, 8, 188-204.	0.6	21
8	Transcriptomes reflect the phenotypes of undifferentiated, granulocyte and macrophage forms of HL-60/S4 cells. <i>Nucleus</i> , 2017, 8, 222-237.	0.6	19
9	Histone Acetylation Regulates Chromatin Accessibility: Role of H4K16 in Inter-nucleosome Interaction. <i>Biophysical Journal</i> , 2017, 112, 450-459.	0.2	111
10	Defining the epichromatin epitope. <i>Nucleus</i> , 2017, 8, 625-640.	0.6	15
11	Effects of charge-modifying mutations in histone H2A $\pm 3$ -domain on nucleosome stability assessed by single-pair FRET and MD simulations. <i>Scientific Reports</i> , 2017, 7, 13303.	1.6	18
12	Single plane illumination microscopy as a tool for studying nucleosome dynamics. <i>Methods</i> , 2017, 123, 3-10.	1.9	10
13	In Vitro Assembly Kinetics of Cytoplasmic Intermediate Filaments: A Correlative Monte Carlo Simulation Study. <i>PLoS ONE</i> , 2016, 11, e0157451.	1.1	14
14	Chromatin Dynamics are Controlled by Nuclear Lamin A: Light Sheet Microscopy - FCS Studies. <i>Biophysical Journal</i> , 2016, 110, 65a.	0.2	0
15	Single Molecule Fluorescence Studies on Nucleosome Dynamics. <i>Biophysical Journal</i> , 2016, 110, 638a.	0.2	0
16	EGFP oligomers as natural fluorescence and hydrodynamic standards. <i>Scientific Reports</i> , 2016, 6, 33022.	1.6	46
17	Nucleosome Dynamics Studied by Förster Resonance Energy Transfer. , 2016, , 329-356.		0
18	Imaging Fos-Jun Transcription Factor Mobility and Interaction in Live Cells by Single Plane Illumination-Fluorescence Cross Correlation Spectroscopy. <i>PLoS ONE</i> , 2015, 10, e0123070.	1.1	17

#	ARTICLE	IF	CITATIONS
19	The effect of DNA supercoiling on nucleosome structure and stability. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 064105.	0.7	14
20	Opposing roles of H3- and H4-acetylation in the regulation of nucleosome structure—a FRET study. <i>Nucleic Acids Research</i> , 2015, 43, 1433-1443.	6.5	62
21	Imaging fluorescence (cross-) correlation spectroscopy in live cells and organisms. <i>Nature Protocols</i> , 2015, 10, 1948-1974.	5.5	164
22	Retrotransposon Alu is enriched in the epichromatin of HL-60 cells. <i>Nucleus</i> , 2014, 5, 237-246.	0.6	19
23	Ligand Binding Shifts Highly Mobile Retinoid X Receptor to the Chromatin-Bound State in a Coactivator-Dependent Manner, as Revealed by Single-Cell Imaging. <i>Molecular and Cellular Biology</i> , 2014, 34, 1234-1245.	1.1	33
24	Dual-Color Fluorescence Cross-Correlation Spectroscopy on a Single Plane Illumination Microscope (SPIM-FCCS). <i>Optics Express</i> , 2014, 22, 2358.	1.7	54
25	The Role of Histone Tails in the Nucleosome: A Computational Study. <i>Biophysical Journal</i> , 2014, 107, 2911-2922.	0.2	70
26	The conformational state of the nucleosome entry—exit site modulates TATA box-specific TBP binding. <i>Nucleic Acids Research</i> , 2014, 42, 7561-7576.	6.5	21
27	Watering down a theory. <i>Physics of Life Reviews</i> , 2014, 11, 171-172.	1.5	1
28	Correlating Mobility and Interaction of Transcription Factors by SPIM-FCS. <i>Biophysical Journal</i> , 2014, 106, 396a-397a.	0.2	0
29	Selective Acetylation Reveals Distinct Roles of Histones H3 and H4 in Nucleosome Dynamics - a FRET Study. <i>Biophysical Journal</i> , 2014, 106, 430a.	0.2	0
30	Protein Interaction and Transport Maps of Live Cell Nuclei Using Fluorescence Correlation Spectroscopy in a Single Plane Illumination Microscope. <i>Microscopy and Microanalysis</i> , 2014, 20, 1196-1197.	0.2	0
31	How Histone Modifications Change Nucleosome Stability — FRET Studies on Single Molecules and in Bulk. <i>Microscopy and Microanalysis</i> , 2014, 20, 1204-1205.	0.2	0
32	Atomistic simulations of nucleosomes. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2013, 3, 378-392.	6.2	42
33	Histone—and DNA sequence—dependent stability of nucleosomes studied by single—pair FRET. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83, 839-846.	1.1	40
34	Dynamics of Nucleosome Tails Studied by All-Atom and Coarse-Grained MD Simulations. <i>Biophysical Journal</i> , 2013, 104, 6a.	0.2	0
35	Nucleosome Dynamics Studied by Single-Pair FRET and Computer Simulations. <i>Biophysical Journal</i> , 2013, 104, 38a.	0.2	0
36	SPIM-FCCS: A Novel Technique to Quantitate Protein-Protein Interaction in Live Cells. <i>Biophysical Journal</i> , 2013, 104, 61a.	0.2	4

#	ARTICLE	IF	CITATIONS
37	The performance of 2D array detectors for light sheet based fluorescence correlation spectroscopy. <i>Optics Express</i> , 2013, 21, 8652.	1.7	66
38	The statistical-mechanics of chromosome conformation capture. <i>Nucleus</i> , 2013, 4, 390-398.	0.6	47
39	Spatial Localization of Genes Determined by Intranuclear DNA Fragmentation with the Fusion Proteins Lamin KRED and Histone KRED und Visible Light. <i>International Journal of Medical Sciences</i> , 2013, 10, 1136-1148.	1.1	4
40	Closing the Gap between Single Molecule and Bulk FRET Analysis of Nucleosomes. <i>PLoS ONE</i> , 2013, 8, e57018.	1.1	25
41	Kinetic lattice Monte Carlo simulation of viscoelastic subdiffusion. <i>Journal of Chemical Physics</i> , 2012, 137, 064114.	1.2	10
42	FPGA implementation of a 32x32 autocorrelator array for analysis of fast image series. <i>Optics Express</i> , 2012, 20, 17767.	1.7	39
43	Chromosome positioning and the clustering of functionally related loci in yeast is driven by chromosomal interactions. <i>Nucleus</i> , 2012, 3, 370-383.	0.6	56
44	DNA bending potentials for loop-mediated nucleosome repositioning. <i>Europhysics Letters</i> , 2012, 97, 38004.	0.7	7
45	Modeling of Particle Number Fluctuations in Entire Cells. <i>Biophysical Journal</i> , 2012, 102, 594a.	0.2	0
46	Nucleosome Dynamics Studied by Single Pair FRET and Computer Simulations. <i>Biophysical Journal</i> , 2012, 102, 480a.	0.2	0
47	Dual-Color Single Plane Illumination Fluorescence Correlation Spectroscopy (SPIM-FCS) using a Single Photon Detector and Hardware Based Image Processing. <i>Biophysical Journal</i> , 2012, 102, 207a.	0.2	1
48	Note: Multiplexed multiple-tau auto- and cross-correlators on a single field programmable gate array. <i>Review of Scientific Instruments</i> , 2012, 83, 046101.	0.6	14
49	Unwrapping of Nucleosomal DNA Ends: A Multiscale Molecular Dynamics Study. <i>Biophysical Journal</i> , 2012, 102, 849-858.	0.2	65
50	Cell Cycle-Dependent Mobility of Cdc45 Determined in vivo by Fluorescence Correlation Spectroscopy. <i>PLoS ONE</i> , 2012, 7, e35537.	1.1	14
51	Single Plane Illumination Fluorescence Correlation Spectroscopy (SPIM-FCS) Using a Position-Sensitive Detector. <i>Biophysical Journal</i> , 2011, 100, 469a.	0.2	0
52	Chromosome dynamics, molecular crowding, and diffusion in the interphase cell nucleus: a Monte Carlo lattice simulation study. <i>Chromosome Research</i> , 2011, 19, 63-81.	1.0	38
53	Nucleosome accessibility governed by the dimer/tetramer interface. <i>Nucleic Acids Research</i> , 2011, 39, 3093-3102.	6.5	175
54	Role of Histone Tails in Structural Stability of the Nucleosome. <i>PLoS Computational Biology</i> , 2011, 7, e1002279.	1.5	104

#	ARTICLE	IF	CITATIONS
55	Deconstructing the Late Phase of Vimentin Assembly by Total Internal Reflection Fluorescence Microscopy (TIRFM). PLoS ONE, 2011, 6, e19202.	1.1	82
56	Protein Diffusion in Mammalian Cell Cytoplasm. PLoS ONE, 2011, 6, e22962.	1.1	145
57	Rigid assembly and Monte Carlo models of stable and unstable chromatin structures: the effect of nucleosomal spacing. Theoretical Chemistry Accounts, 2010, 125, 217-231.	0.5	8
58	Chromosome conformation by crosslinking. Nucleus, 2010, 1, 37-39.	0.6	10
59	Brownian Dynamics Simulation of FCS Measurements on Single Fluorophore-Labeled Superhelical DNA. Biophysical Journal, 2010, 98, 570a.	0.2	0
60	Histone Depletion Facilitates Chromatin Loops on the Kilobasepair Scale. Biophysical Journal, 2010, 99, 2995-3001.	0.2	39
61	Anomalous diffusion in the interphase cell nucleus: The effect of spatial correlations of chromatin. Journal of Chemical Physics, 2010, 133, 025101.	1.2	29
62	Nucleosome Dynamics Studied by Free Solution Single Molecule FRET. Biophysical Journal, 2010, 98, 477a.	0.2	0
63	Mapping eGFP Oligomer Mobility in Living Cell Nuclei. PLoS ONE, 2009, 4, e5041.	1.1	143
64	Parvovirus Induced Alterations in Nuclear Architecture and Dynamics. PLoS ONE, 2009, 4, e5948.	1.1	31
65	How proteins squeeze through polymer networks: A Cartesian lattice study. Journal of Chemical Physics, 2009, 131, 064905.	1.2	22
66	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.	3.3	171
67	Brownian Dynamics Simulation of DNA Unrolling from the Nucleosome. Journal of Physical Chemistry B, 2009, 113, 2639-2646.	1.2	46
68	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.	1.2	60
69	Vimentin Intermediate Filament Formation: In Vitro Measurement and Mathematical Modeling of the Filament Length Distribution during Assembly. Langmuir, 2009, 25, 8817-8823.	1.6	51
70	Dynamics of a fluorophore attached to superhelical DNA: FCS experiments simulated by Brownian dynamics. Physical Chemistry Chemical Physics, 2009, 11, 10671.	1.3	17
71	Filamentous Biopolymers on Surfaces: Atomic Force Microscopy Images Compared with Brownian Dynamics Simulation of Filament Deposition. PLoS ONE, 2009, 4, e7756.	1.1	23
72	Invasive breast cancer cells exhibit increased mobility of the actin-binding protein CapG. International Journal of Cancer, 2008, 122, 1476-1482.	2.3	38

#	ARTICLE	IF	CITATIONS
73	Dynamics of the CapG actin-binding protein in the cell nucleus studied by FRAP and FCS. <i>Chromosome Research</i> , 2008, 16, 427-437.	1.0	23
74	Coarse-grained force field for the nucleosome from self-consistent multiscaling. <i>Journal of Computational Chemistry</i> , 2008, 29, 1429-1439.	1.5	77
75	Light optical precision measurements of the active and inactive Prader-Willi syndrome imprinted regions in human cell nuclei. <i>Differentiation</i> , 2008, 76, 66-82.	1.0	45
76	Conformation of the c-Fos/c-Jun Complex In Vivo: A Combined FRET, FCCS, and MD-Modeling Study. <i>Biophysical Journal</i> , 2008, 94, 2859-2868.	0.2	48
77	Protein-Protein Interactions Determined by Fluorescence Correlation Spectroscopy. <i>Methods in Cell Biology</i> , 2008, 85, 471-484.	0.5	38
78	Spontaneous Access to DNA Target Sites in Folded Chromatin Fibers. <i>Journal of Molecular Biology</i> , 2008, 379, 772-786.	2.0	135
79	The role of chromatin conformations in diffusional transport of chromatin-binding proteins: Cartesian lattice simulations. <i>Journal of Chemical Physics</i> , 2008, 128, 155101.	1.2	11
80	A Quantitative Kinetic Model for the in Vitro Assembly of Intermediate Filaments from Tetrameric Vimentin. <i>Journal of Biological Chemistry</i> , 2007, 282, 18563-18572.	1.6	84
81	Modeling diffusional transport in the interphase cell nucleus. <i>Journal of Chemical Physics</i> , 2007, 127, 045102.	1.2	16
82	Escherichia coli low-copy-number plasmid R1 centromere parC forms a U-shaped complex with its binding protein ParR. <i>Nucleic Acids Research</i> , 2007, 36, 607-615.	6.5	12
83	Computational modeling of the chromatin fiber. <i>Seminars in Cell and Developmental Biology</i> , 2007, 18, 659-667.	2.3	69
84	Divalent Ion and Thermally Induced DNA Conformational Polymorphism on Single-walled Carbon Nanotubes. <i>Macromolecules</i> , 2007, 40, 6731-6739.	2.2	64
85	Induced and repressed genes after irradiation sensitizing by pentoxifylline. <i>International Journal of Cancer</i> , 2007, 120, 1198-1207.	2.3	4
86	Single-pair fluorescence resonance energy transfer of nucleosomes in free diffusion: Optimizing stability and resolution of subpopulations. <i>Analytical Biochemistry</i> , 2007, 368, 193-204.	1.1	38
87	Organisation of nucleosomal arrays reconstituted with repetitive African green monkey $\alpha$ -satellite DNA as analysed by atomic force microscopy. <i>European Biophysics Journal</i> , 2007, 37, 81-93.	1.2	20
88	Facilitated Diffusion of DNA-Binding Proteins. <i>Physical Review Letters</i> , 2006, 96, 018104.	2.9	64
89	Chromatin Compaction at the Mononucleosome Level. <i>Biochemistry</i> , 2006, 45, 1591-1598.	1.2	62
90	Trinucleosome Compaction Studied by Fluorescence Energy Transfer and Scanning Force Microscopy. <i>Biochemistry</i> , 2006, 45, 10838-10846.	1.2	21

#	ARTICLE	IF	CITATIONS
91	DNA damaging capability of hematoporphyrin towards DNAs of various accessibilities. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2006, 84, 119-127.	1.7	5
92	Polymer chain models of DNA and chromatin. <i>European Physical Journal E</i> , 2006, 19, 241-249.	0.7	109
93	Spatially confined polymer chains: implications of chromatin fibre flexibility and peripheral anchoring on telomere-telomere interaction. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S245-S252.	0.7	14
94	Facilitated diffusion of DNA-binding proteins: Simulation of large systems. <i>Journal of Chemical Physics</i> , 2006, 125, 014906.	1.2	11
95	Interactions between Merozoite Surface Proteins 1, 6, and 7 of the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 31517-31527.	1.6	71
96	Rapid, Diffusional Shuttling of Poly(A) RNA between Nuclear Speckles and the Nucleoplasm. <i>Molecular Biology of the Cell</i> , 2006, 17, 1239-1249.	0.9	84
97	Monte Carlo simulation of chromatin stretching. <i>Physical Review E</i> , 2006, 73, 041927.	0.8	30
98	Facilitated diffusion of DNA-binding proteins: Efficient simulation with the method of excess collisions. <i>Journal of Chemical Physics</i> , 2006, 124, 134908.	1.2	9
99	Two-Hybrid Fluorescence Cross-Correlation Spectroscopy Detects Protein-Protein Interactions In Vivo. <i>ChemPhysChem</i> , 2005, 6, 984-990.	1.0	86
100	Mechanism of Hairpin-Duplex Conversion for the HIV-1 Dimerization Initiation Site. <i>Journal of Biological Chemistry</i> , 2005, 280, 40112-40121.	1.6	44
101	Kinetics of protein binding in solid-phase immunoassays: Theory. <i>Journal of Chemical Physics</i> , 2005, 122, 214715.	1.2	25
102	DNA-loop Formation on Nucleosomes Shown by in situ Scanning Force Microscopy of Supercoiled DNA. <i>Journal of Molecular Biology</i> , 2005, 345, 695-706.	2.0	31
103	IL-2 and IL-15 receptor $\alpha$ -subunits are coexpressed in a supramolecular receptor cluster in lipid rafts of T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11082-11087.	3.3	114
104	Maximum-entropy decomposition of fluorescence correlation spectroscopy data: application to liposome-human serum albumin association. <i>European Biophysics Journal</i> , 2004, 33, 59-67.	1.2	33
105	Modeling of intramolecular reactions of polymers: An efficient method based on Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2004, 121, 4951-4960.	1.2	15
106	Long-range compaction and flexibility of interphase chromatin in budding yeast analyzed by high-resolution imaging techniques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16495-16500.	3.3	274
107	DNA Deformability at the Base Pair Level. <i>Journal of the American Chemical Society</i> , 2004, 126, 4124-4125.	6.6	41
108	Assessing the Flexibility of Intermediate Filaments by Atomic Force Microscopy. <i>Journal of Molecular Biology</i> , 2004, 335, 1241-1250.	2.0	210

#	ARTICLE	IF	CITATIONS
109	Molecular and Biophysical Characterization of Assembly-Starter Units of Human Vimentin. <i>Journal of Molecular Biology</i> , 2004, 340, 97-114.	2.0	148
110	Theory and computational modeling of the 30 nm chromatin fiber. <i>New Comprehensive Biochemistry</i> , 2004, 39, 397-420.	0.1	7
111	Melting under Stress. <i>Biophysical Journal</i> , 2004, 86, 2639-2640.	0.2	1
112	Characterization of simian virus 40 on its infectious entry pathway in cells using fluorescence correlation spectroscopy. <i>Biochemical Society Transactions</i> , 2004, 32, 746-749.	1.6	12
113	Counting Nucleosomes in Living Cells with a Combination of Fluorescence Correlation Spectroscopy and Confocal Imaging. <i>Journal of Molecular Biology</i> , 2003, 334, 229-240.	2.0	147
114	Analyzing Intracellular Binding and Diffusion with Continuous Fluorescence Photobleaching. <i>Biophysical Journal</i> , 2003, 84, 3353-3363.	0.2	125
115	DNA Basepair Step Deformability Inferred from Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2003, 85, 2872-2883.	0.2	237
116	Conformation of Reconstituted Mononucleosomes and Effect of Linker Histone H1 Binding Studied by Scanning Force Microscopy. <i>Biophysical Journal</i> , 2003, 85, 4012-4022.	0.2	32
117	Polylysine-coated mica can be used to observe systematic changes in the supercoiled DNA conformation by scanning force microscopy in solution. <i>Nucleic Acids Research</i> , 2003, 31, 137e-137.	6.5	84
118	Genome Function and Nuclear Architecture: From Gene Expression to Nanoscience. <i>Genome Research</i> , 2003, 13, 1029-1041.	2.4	66
119	The in vitro Assembly of Hair Follicle Keratins: Comparison of Cortex and Companion Layer Keratins. <i>Biological Chemistry</i> , 2002, 383, 1373-81.	1.2	13
120	Computational Analysis of the Chiral Action of Type II DNA Topoisomerases. <i>Journal of Molecular Biology</i> , 2002, 320, 359-367.	2.0	19
121	Kinetics of Site-Site Interactions in Supercoiled DNA with Bent Sequences. <i>Journal of Molecular Biology</i> , 2002, 322, 707-718.	2.0	22
122	Critical Effect of the N2 Amino Group on Structure, Dynamics, and Elasticity of DNA Polypurine Tracts. <i>Biophysical Journal</i> , 2002, 82, 2592-2609.	0.2	84
123	Computer Simulation of the 30-Nanometer Chromatin Fiber. <i>Biophysical Journal</i> , 2002, 82, 2847-2859.	0.2	161
124	Analysis of Ligand Binding by Two-Colour Fluorescence Cross-Correlation Spectroscopy. <i>Single Molecules</i> , 2002, 3, 49-61.	1.7	85
125	The Genome as a Flexible Polymer Chain. , 2002, , 121-132.		0
126	Intrachain Reactions of Supercoiled DNA Simulated by Brownian Dynamics. <i>Biophysical Journal</i> , 2001, 81, 1924-1929.	0.2	12



#	ARTICLE	IF	CITATIONS
127	Diffusion-Controlled Intrachain Reactions of Supercoiled DNA: Brownian Dynamics Simulations. <i>Biophysical Journal</i> , 2001, 80, 69-74.	0.2	20
128	Trajectory of Nucleosomal Linker DNA Studied by Fluorescence Resonance Energy Transfer. <i>Biochemistry</i> , 2001, 40, 6921-6928.	1.2	44
129	Rotational dynamics of curved DNA fragments studied by fluorescence polarization anisotropy. <i>European Biophysics Journal</i> , 2001, 29, 597-606.	1.2	16
130	Kinetics of intrachain reactions of supercoiled DNA: Theory and numerical modeling. <i>Journal of Chemical Physics</i> , 2001, 114, 5049-5060.	1.2	10
131	Computation of writhe in modeling of supercoiled DNA. <i>Biopolymers</i> , 2000, 54, 307-317.	1.2	151
132	The diameter of the DNA superhelix decreases with salt concentration: SANS measurements and Monte Carlo simulations. <i>Journal of Applied Crystallography</i> , 2000, 33, 526-529.	1.9	6
133	Physical characterization of plakophilin-1 reconstituted with and without zinc. <i>FEBS Journal</i> , 2000, 267, 4381-4389.	0.2	7
134	Anomalous diffusion of fluorescent probes inside living cell nuclei investigated by spatially-resolved fluorescence correlation spectroscopy. <i>Journal of Molecular Biology</i> , 2000, 298, 677-689.	2.0	424
135	Sequence-dependent elastic properties of DNA 1 Edited by I. Tinoco. <i>Journal of Molecular Biology</i> , 2000, 299, 695-709.	2.0	149
136	The Effect of the DNA Conformation on the Rate of NtrC activated Transcription of Escherichia coli RNA Polymerase-54 Holoenzyme. <i>Journal of Molecular Biology</i> , 2000, 300, 709-725.	2.0	25
137	Salt-Dependent Compaction of Di- and Trinucleosomes Studied by Small-Angle Neutron Scattering. <i>Biophysical Journal</i> , 2000, 79, 584-594.	0.2	23
138	Modeling Dynamic Light Scattering of Supercoiled DNA. <i>Macromolecules</i> , 2000, 33, 1459-1466.	2.2	15
139	Computation of writhe in modeling of supercoiled DNA. , 2000, 54, 307.		9
140	Three-Dimensional Organization of Chromosome Territories and the Human Cell Nucleus. , 2000, , 229-238.		1
141	Superhelical DNA studied by solution scattering and computer models. <i>Genetica</i> , 1999, 106, 49-55.	0.5	14
142	Compartmentalization of Interphase Chromosomes Observed in Simulation and Experiment. <i>Journal of Molecular Biology</i> , 1999, 285, 1053-1065.	2.0	190
143	Scanning force microscopy of Escherichia coli RNA polymerase-54 holoenzyme complexes with DNA in buffer and in air 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 1998, 283, 821-836.	2.0	41
144	Chromatin structure and chromosome aberrations: modeling of damage induced by isotropic and localized irradiation. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1998, 404, 77-88.	0.4	32

#	ARTICLE	IF	CITATIONS
145	Superhelix organization by DNA curvature as measured through site-specific labeling 1 Edited by J. Karn. Journal of Molecular Biology, 1998, 275, 601-611.	2.0	44
146	DNA Curvature in Solution Measured by Fluorescence Resonance Energy Transfer. Biochemistry, 1998, 37, 8173-8179.	1.2	51
147	Looping Dynamics of Linear DNA Molecules and the Effect of DNA Curvature: A Study by Brownian Dynamics Simulation. Biophysical Journal, 1998, 74, 773-779.	0.2	66
148	A Brownian Dynamics Program for the Simulation of Linear and Circular DNA and Other Wormlike Chain Polyelectrolytes. Biophysical Journal, 1998, 74, 780-788.	0.2	127
149	Salt-Dependent DNA Superhelix Diameter Studied by Small Angle Neutron Scattering Measurements and Monte Carlo Simulations. Biophysical Journal, 1998, 75, 3057-3063.	0.2	67
150	DNA binding and oligomerization of NtrC studied by fluorescence anisotropy and fluorescence correlation spectroscopy. Nucleic Acids Research, 1998, 26, 1373-1381.	6.5	48
151	Chromosome structure predicted by a polymer model. Physical Review E, 1998, 57, 5888-5896.	0.8	107
152	Kinetics of structural changes in superhelical DNA. Physical Review E, 1998, 58, 3537-3546.	0.8	11
153	Genome Research and Bioinformatics. , 1998, , 167-187.		1
154	Genomforschung und Bioinformatik. , 1998, , 173-193.		0
155	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.	6.5	70
156	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.	6.5	31
157	Polymer Dynamics of DNA, Chromatin, and Chromosomes. , 1997, , 57-72.		0
158	Rod-Like Shape of Vesicular Stomatitis Virus Matrix Protein. Virology, 1996, 219, 465-470.	1.1	7
159	Nuclear architecture and the induction of chromosomal aberrations. Mutation Research - Reviews in Genetic Toxicology, 1996, 366, 97-116.	3.0	115
160	DNA supercoiling, localized bending and thermal fluctuations. Trends in Biochemical Sciences, 1996, 21, 50.	3.7	23
161	Action at a distance: DNA-looping and initiation of transcription. Trends in Biochemical Sciences, 1995, 20, 500-506.	3.7	271
162	Solution structure of glyceraldehyde-3-phosphate dehydrogenase from Haloarcula vallismortis. Biophysical Chemistry, 1995, 54, 219-227.	1.5	23

#	ARTICLE	IF	CITATIONS
163	Supercoiling couples DNA curvature to the overall shape and the internal motion of the DNA molecule in solution. <i>Computational and Theoretical Chemistry</i> , 1995, 336, 227-234.	1.5	2
164	Quaternary Structure of Casein Kinase 2. <i>Journal of Biological Chemistry</i> , 1995, 270, 8345-8352.	1.6	104
165	Kinetics of DNA supercoiling studied by Brownian dynamics simulation. <i>Biopolymers</i> , 1994, 34, 415-433.	1.2	146
166	Solution structure and dynamics of DNA topoisomers: Dynamic light scattering studies and Monte Carlo simulations. <i>Biopolymers</i> , 1994, 34, 639-646.	1.2	38
167	Structural changes in 16S RNA from <i>Escherichia coli</i> upon unfolding by urea. <i>Biopolymers</i> , 1993, 33, 1747-1755.	1.2	7
168	Ten microseconds in the life of a superhelix. <i>Journal of Mathematical Chemistry</i> , 1993, 13, 33-43.	0.7	6
169	[21] Dynamic light scattering for study of solution conformation and dynamics of superhelical DNA. <i>Methods in Enzymology</i> , 1992, 211, 430-448.	0.4	31
170	Structure and RNA content of the prosomes. <i>FEBS Letters</i> , 1992, 300, 49-55.	1.3	21
171	Solution studies of elongation factor Tu from the extreme halophile <i>Halobacterium marismortui</i> . <i>Journal of Molecular Biology</i> , 1992, 223, 361-371.	2.0	32
172	Pre-nucleation crystallization studies on aminoacyl-tRNA synthetases by dynamic light-scattering. <i>Journal of Molecular Biology</i> , 1992, 225, 185-191.	2.0	20
173	Preparation of DNA topoisomers by RP-18 high-performance liquid chromatography. <i>Analytical Biochemistry</i> , 1992, 206, 293-299.	1.1	18
174	Spatial visualization of DNA in solution. <i>Journal of Structural Biology</i> , 1991, 107, 15-21.	1.3	36
175	Purification and characterization of wild-type and ts112 mutant protein IIIa of human adenovirus 2 expressed in <i>Escherichia coli</i> . <i>Virology</i> , 1990, 175, 222-231.	1.1	12
176	Neutron and light-scattering studies of DNA gyrase and its complex with DNA. <i>Journal of Molecular Biology</i> , 1990, 211, 211-220.	2.0	49
177	Configurational and dynamic properties of different length superhelical DNAs measured by dynamic light scattering. <i>Biophysical Chemistry</i> , 1989, 34, 9-18.	1.5	58
178	An elongated model of the <i>Xenopus laevis</i> transcription factor IIIA-5S ribosomal RNA complex derived from neutron scattering and hydrodynamic measurements. <i>Nucleic Acids Research</i> , 1988, 16, 8633-8644.	6.5	9
179	Salt effects on internal motions of superhelical and linear pUC8 DNA. <i>Biophysical Chemistry</i> , 1987, 27, 263-271.	1.5	59
180	Dynamics of superhelical DNA studied by photon correlation spectroscopy. <i>Biophysical Chemistry</i> , 1986, 25, 191-200.	1.5	43

#	ARTICLE	IF	CITATIONS
181	Product analysis of in vitro ribosomal protein synthesis for the assessment of kinetic parameters. Analytical Biochemistry, 1985, 147, 364-368.	1.1	6
182	Deformational dynamics and nmr relaxation of supercoiled DNAs. Biopolymers, 1985, 24, 1023-1056.	1.2	27
183	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
184	Construction of a microprocessor-controlled pulsed quench-flow apparatus for the study of fast chemical and biochemical reactions. Analytical Biochemistry, 1984, 142, 91-97.	1.1	6
185	Microprocessor controlled quenched flow apparatus for the study of fast chemical reactions. Fresenius Zeitschrift für Analytische Chemie, 1982, 311, 364-365.	0.7	0
186	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
187	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.	3.3	467
188	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
189	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.	6.5	35
190	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.	6.5	36
191	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.	6.5	38
192	Common structural features of different viroids: serial arrangement of double helical sections and internal loops. Nucleic Acids Research, 1978, 5, 1589-1610.	6.5	66