

Lars Nordenskild

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

3,352
citations

35
h-index

53
g-index

123
ext. papers

3,741
ext. citations

5.4
avg, IF

5.16
L-index

#	Paper	IF	Citations
105	Recent Advances in Investigating Functional Dynamics of Chromatin.. <i>Frontiers in Genetics</i> , 2022 , 13, 870640	4.9	0
104	Bottom-Up Coarse-Grained Modeling of DNA. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 645527	5.6	7
103	Hydrophobic interactions control the self-assembly of DNA and cellulose. <i>Quarterly Reviews of Biophysics</i> , 2021 , 54, e3	7	19
102	Linker histone defines structure and self-association behaviour of the 177bp human chromatosome. <i>Scientific Reports</i> , 2021 , 11, 380	4.9	5
101	Histone H4 lysine 20 mono-methylation directly facilitates chromatin openness and promotes transcription of housekeeping genes. <i>Nature Communications</i> , 2021 , 12, 4800	17.4	11
100	The human telomeric nucleosome displays distinct structural and dynamic properties. <i>Nucleic Acids Research</i> , 2020 , 48, 5383-5396	20.1	9
99	Compaction and self-association of megabase-sized chromatin are induced by anionic protein crowding. <i>Soft Matter</i> , 2020 , 16, 4366-4372	3.6	5
98	Internal Motion of Chromatin Fibers Is Governed by Dynamics of Uncompressed Linker Strands. <i>Biophysical Journal</i> , 2020 , 119, 2326-2334	2.9	0
97	Solid-state NMR C, N assignments of human histone H3 in the nucleosome core particle. <i>Biomolecular NMR Assignments</i> , 2020 , 14, 99-104	0.7	4
96	Modeling DNA Flexibility: Comparison of Force Fields from Atomistic to Multiscale Levels. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 38-49	3.4	15
95	Dynamic networks observed in the nucleosome core particles couple the histone globular domains with DNA. <i>Communications Biology</i> , 2020 , 3, 639	6.7	9
94	A multiscale analysis of DNA phase separation: from atomistic to mesoscale level. <i>Nucleic Acids Research</i> , 2019 , 47, 5550-5562	20.1	13
93	Magic v.3: An integrated software package for systematic structure-based coarse-graining. <i>Computer Physics Communications</i> , 2019 , 237, 263-273	4.2	10
92	A systematic analysis of nucleosome core particle and nucleosome-nucleosome stacking structure. <i>Scientific Reports</i> , 2018 , 8, 1543	4.9	27
91	Single-molecule compaction of megabase-long chromatin molecules by multivalent cations. <i>Nucleic Acids Research</i> , 2018 , 46, 635-649	20.1	16
90	EZH2 promotes neoplastic transformation through VAV interaction-dependent extranuclear mechanisms. <i>Oncogene</i> , 2018 , 37, 461-477	9.2	10
89	Compaction of Single-Molecule Megabase-Long Chromatin under the Influence of Macromolecular Crowding. <i>Biophysical Journal</i> , 2018 , 114, 2326-2335	2.9	11

88	The effect of linker DNA on the structure and interaction of nucleosome core particles. <i>Soft Matter</i> , 2018 , 14, 9096-9106	3.6	4
87	Structure and Dynamics in the Nucleosome Revealed by Solid-State NMR. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9734-9738	16.4	17
86	Structure and Dynamics in the Nucleosome Revealed by Solid-State NMR. <i>Angewandte Chemie</i> , 2018 , 130, 9882-9886	3.6	3
85	Regulation of Nucleosome Stacking and Chromatin Compaction by the Histone H4 N-Terminal Tail-H2A Acidic Patch Interaction. <i>Journal of Molecular Biology</i> , 2017 , 429, 2075-2092	6.5	42
84	Single-molecule force spectroscopy on histone H4 tail-cross-linked chromatin reveals fiber folding. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17506-17513	5.4	21
83	All-Atom MD Simulation of DNA Condensation Using Ab Initio Derived Force Field Parameters of Cobalt(III)-Hexammine. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7761-7770	3.4	10
82	Multiscale coarse-grained modelling of chromatin components: DNA and the nucleosome. <i>Advances in Colloid and Interface Science</i> , 2016 , 232, 36-48	14.3	16
81	Elucidating the DNA-histone Interaction in Nucleosome from the DNA Dendrimer Complex. <i>Macromolecules</i> , 2016 , 49, 4277-4285	5.5	9
80	The Influence of Ionic Environment and Histone Tails on Columnar Order of Nucleosome Core Particles. <i>Biophysical Journal</i> , 2016 , 110, 1720-1731	2.9	20
79	3.9 Å Structure of the nucleosome core particle determined by phase-plate cryo-EM. <i>Nucleic Acids Research</i> , 2016 , 44, 8013-9	20.1	59
78	Multiscale modelling of nucleosome core particle aggregation. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 064111	1.8	5
77	Chromatin compaction under mixed salt conditions: opposite effects of sodium and potassium ions on nucleosome array folding. <i>Scientific Reports</i> , 2015 , 5, 8512	4.9	49
76	Principles of electrostatic interactions and self-assembly in lipid/peptide/DNA systems: applications to gene delivery. <i>Advances in Colloid and Interface Science</i> , 2014 , 205, 221-9	14.3	15
75	Conformation-dependent DNA attraction. <i>Nanoscale</i> , 2014 , 6, 7085-92	7.7	11
74	Selective Acetylation Reveals Distinct Roles of Histones H3 and H4 in Nucleosome Dynamics - a FRET Study. <i>Biophysical Journal</i> , 2014 , 106, 430a	2.9	
73	How Histone Modifications Change Nucleosome Stability [FRET Studies on Single Molecules and in Bulk. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1204-1205	0.5	
72	ISWI remodelling of physiological chromatin fibres acetylated at lysine 16 of histone H4. <i>PLoS ONE</i> , 2014 , 9, e88411	3.7	20
71	Molecular dynamics simulations demonstrate the regulation of DNA-DNA attraction by H4 histone tail acetylations and mutations. <i>Biopolymers</i> , 2014 , 101, 1051-64	2.2	20

70	A Coarse-Grained DNA Model Parameterized from Atomistic Simulations by Inverse Monte Carlo. <i>Polymers</i> , 2014 , 6, 1655-1675	4.5	34
69	An advanced coarse-grained nucleosome core particle model for computer simulations of nucleosome-nucleosome interactions under varying ionic conditions. <i>PLoS ONE</i> , 2013 , 8, e54228	3.7	38
68	Modelling chromatin structure and dynamics: status and prospects. <i>Current Opinion in Structural Biology</i> , 2012 , 22, 151-9	8.1	33
67	Supramolecular organization in self-assembly of chromatin and cationic lipid bilayers is controlled by membrane charge density. <i>Biomacromolecules</i> , 2012 , 13, 4146-57	6.9	6
66	Structure and internal organization of overcharged cationic-lipid/peptide/DNA self-assembly complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 1794-800	3.8	8
65	The effect of salt on oligocation-induced chromatin condensation. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 418, 205-10	3.4	14
64	Biophysical properties and supramolecular structure of self-assembled liposome/peptide/DNA nanoparticles: correlation with gene delivery. <i>Biomacromolecules</i> , 2012 , 13, 124-31	6.9	14
63	The polyelectrolyte properties of chromatin. <i>Soft Matter</i> , 2012 , 8, 9322	3.6	57
62	A universal description for the experimental behavior of salt-(in)dependent oligocation-induced DNA condensation. <i>Nucleic Acids Research</i> , 2012 , 40, 2808-21	20.1	21
61	Sequence-specific Mg ²⁺ -DNA interactions: a molecular dynamics simulation study. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14713-20	3.4	45
60	Influence of histone tails and H4 tail acetylations on nucleosome-nucleosome interactions. <i>Journal of Molecular Biology</i> , 2011 , 414, 749-64	6.5	53
59	A Direct Method for Site-Specific Protein Acetylation. <i>Angewandte Chemie</i> , 2011 , 123, 9785-9788	3.6	24
58	A direct method for site-specific protein acetylation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9611-4	16.4	103
57	The effects of histone H4 tail acetylations on cation-induced chromatin folding and self-association. <i>Nucleic Acids Research</i> , 2011 , 39, 1680-91	20.1	150
56	Effects of cholesterol on pore formation in lipid bilayers induced by human islet amyloid polypeptide fragments: a coarse-grained molecular dynamics study. <i>Physical Review E</i> , 2011 , 84, 051922	2.4	27
55	Electrostatic origin of salt-induced nucleosome array compaction. <i>Biophysical Journal</i> , 2010 , 99, 1896-905	5.9	48
54	Interactions between cationic lipid bilayers and model chromatin. <i>Langmuir</i> , 2010 , 26, 12488-92	4	11
53	Cation-induced polyelectrolyte-polyelectrolyte attraction in solutions of DNA and nucleosome core particles. <i>Advances in Colloid and Interface Science</i> , 2010 , 158, 32-47	14.3	37

52	A universal description for the experimental behavior of salt-(in)dependent oligocation-induced DNA condensation. <i>Nucleic Acids Research</i> , 2009 , 37, 7137-50	20.1	46
51	Computer modeling reveals that modifications of the histone tail charges define salt-dependent interaction of the nucleosome core particles. <i>Biophysical Journal</i> , 2009 , 96, 2082-94	2.9	26
50	Influence of Nitroxide Spin Labels on RNA Structure: A Molecular Dynamics Simulation Study. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 1781-7	6.4	9
49	Design and biophysical characterization of novel polycationic epsilon-peptides for DNA compaction and delivery. <i>Biomacromolecules</i> , 2008 , 9, 321-30	6.9	27
48	Global optimisation by replica exchange with scaled hybrid Hamiltonians. <i>Molecular Simulation</i> , 2008 , 34, 575-590	2	6
47	Molecular dynamics simulation of multivalent-ion mediated attraction between DNA molecules. <i>Physical Review Letters</i> , 2008 , 100, 118301	7.4	85
46	Charge structure and counterion distribution in hexagonal DNA liquid crystal. <i>Biophysical Journal</i> , 2007 , 92, 947-58	2.9	12
45	H4 histone tail mediated DNA-DNA interaction and effects on DNA structure, flexibility, and counterion binding: a molecular dynamics study. <i>Biopolymers</i> , 2007 , 86, 409-23	2.2	16
44	Physicochemical analysis of electrostatic foundation for DNA-protein interactions in chromatin transformations. <i>Progress in Biophysics and Molecular Biology</i> , 2007 , 95, 23-49	4.7	54
43	Folding, misfolding, and amyloid protofibril formation of WW domain FBP28. <i>Biophysical Journal</i> , 2006 , 90, 3983-92	2.9	48
42	Computer modeling demonstrates that electrostatic attraction of nucleosomal DNA is mediated by histone tails. <i>Biophysical Journal</i> , 2006 , 90, 4305-16	2.9	62
41	Similarities and differences in interaction of K ⁺ and Na ⁺ with condensed ordered DNA. A molecular dynamics computer simulation study. <i>Nucleic Acids Research</i> , 2006 , 34, 686-96	20.1	109
40	Molecular Simulation of an Fe-Peptide Dendrimer 2006 , 585-586		
39	A molecular dynamics simulation study of polyamine- and sodium-DNA. Interplay between polyamine binding and DNA structure. <i>European Biophysics Journal</i> , 2004 , 33, 671-82	1.9	30
38	Molecular dynamics simulation study of oriented polyamine- and Na-DNA: sequence specific interactions and effects on DNA structure. <i>Biopolymers</i> , 2004 , 73, 542-55	2.2	30
37	A molecular dynamics simulation study of oriented DNA with polyamine and sodium counterions: diffusion and averaged binding of water and cations. <i>Nucleic Acids Research</i> , 2003 , 31, 5971-81	20.1	72
36	Application of the Poisson Boltzmann polyelectrolyte model for analysis of thermal denaturation of DNA in the presence of Na ⁺ and polyamine cations. <i>Biophysical Chemistry</i> , 2003 , 104, 55-66	3.5	13
35	Polyamine-nucleic acid interactions and the effects on structure in oriented DNA fibers. <i>Nucleic Acids Research</i> , 2002 , 30, 419-28	20.1	73

34	Application of the Poisson Boltzmann polyelectrolyte model for analysis of equilibria between single-, double-, and triple-stranded polynucleotides in the presence of K(+), Na(+), and Mg(2+) ions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002 , 20, 275-90	3.6	13
33	Metal ion-induced lateral aggregation of filamentous viruses fd and M13. <i>Biophysical Journal</i> , 2002 , 83, 566-81	2.9	66
32	On the competition between water, sodium ions, and spermine in binding to DNA: a molecular dynamics computer simulation study. <i>Biophysical Journal</i> , 2002 , 82, 2860-75	2.9	113
31	Competitive substitution of hexammine cobalt(III) for Na+ and K+ ions in oriented DNA fibers. <i>Biopolymers</i> , 2001 , 58, 268-78	2.2	22
30	Spermine: an "invisible" component in the crystals of B-DNA. A grand canonical Monte Carlo and molecular dynamics simulation study. <i>Journal of Molecular Biology</i> , 2001 , 308, 907-17	6.5	76
29	Influence of alkali cation nature on structural transitions and reactions of biopolyelectrolytes. <i>Biomacromolecules</i> , 2000 , 1, 648-55	6.9	15
28	Interactions of polyamines with the DNA octamers d(m5CG)4 and d(GGAATTCC): A 1H-NMR investigation. <i>Biopolymers</i> , 1999 , 49, 41-53	2.2	8
27	Competitive binding of Mg2+, Ca2+, Na+, and K+ ions to DNA in oriented DNA fibers: experimental and Monte Carlo simulation results. <i>Biophysical Journal</i> , 1999 , 77, 2736-49	2.9	87
26	Experimental and Monte Carlo Simulation Studies on the Competitive Binding of Li+, Na+, and K+ ions to DNA in Oriented DNA Fibers. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9008-9019	3.4	25
25	An NMR self-diffusion study of the interactions between spermidine and oligonucleotides 1998 , 38, 505-513		3
24	Self-Diffusion and Association of Li+, Cs+, and H2O in Oriented DNA Fibers. An NMR and MD Simulation Study. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 10636-10642	3.4	19
23	Application of polyelectrolyte theories for analysis of DNA melting in the presence of Na+ and Mg2+ ions. <i>Biophysical Journal</i> , 1998 , 75, 3041-56	2.9	50
22	Electrostatically Induced Polyelectrolyte Association of Rodlike Virus Particles. <i>Physical Review Letters</i> , 1998 , 81, 5465-5468	7.4	77
21	Electrostatically Induced Bundle Formation of Rodlike Polyelectrolytes: Comparison of Predictions from Monte Carlo Simulations with Experiments on Fd And M13 Virus Particles.. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 489, 61		
20	Monte Carlo Simulation Study of DNA Polyelectrolyte Properties in the Presence of Multivalent Polyamine Ions. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 4335-4342	3.4	82
19	Multiple-quantum pulsed gradient NMR diffusion experiments on quadrupolar (I >) spins. <i>Chemical Physics Letters</i> , 1996 , 262, 737-743	2.5	12
18	An NMR self-diffusion study of the interactions between spermidine and oligonucleotides 1996 , 38, 505		3
17	Mechanochemical study of conformational transitions and melting of Li-, Na-, K-, and CsDNA fibers in ethanol/water solutions. <i>Biopolymers</i> , 1994 , 34, 897-920	2.2	41

16	Li ⁺ counterion self-diffusion in ordered DNA. <i>Biopolymers</i> , 1994 , 34, 1605-1614	2.2	7
15	Ca ²⁺ binding environments on natural and synthetic polymeric DNAs. <i>Journal of Biomolecular Structure and Dynamics</i> , 1992 , 10, 333-43	3.6	22
14	A study of the quadrupolar NMR splittings of ⁷ Li ⁺ , ²³ Na ⁺ , and ¹³³ Cs ⁺ counterions in macroscopically oriented DNA fibers. <i>Biopolymers</i> , 1992 , 32, 1631-42	2.2	17
13	A reexamination of ²⁵ Mg ²⁺ NMR in DNA solution: site heterogeneity and cation competition effects. <i>Biopolymers</i> , 1991 , 31, 1343-6	2.2	26
12	Evaluation of the electrostatic osmotic pressure in an infinite system of hexagonally oriented DNA molecules. <i>Molecular Physics</i> , 1991 , 72, 177-192	1.7	35
11	Preparation of Oriented Ca- and Mg-DNA by Means of the Wet Spinning Method.. <i>Acta Chemica Scandinavica</i> , 1991 , 45, 216-218		6
10	The interaction of calcium (II) with DNA probed by ⁴³ Ca-NMR is not influenced by terminal phosphate groups at ends and nicks. <i>Biopolymers</i> , 1989 , 28, 1339-42	2.2	18
9	A ⁴³ Ca-NMR study of Ca(II)-DNA interactions. <i>Biopolymers</i> , 1987 , 26, 1047-62	2.2	42
8	A Monte Carlo simulation study of electrostatic forces between hexagonally packed DNA double helices. <i>Journal of Chemical Physics</i> , 1986 , 85, 6686-6698	3.9	122
7	Theory of nuclear spin relaxation in paramagnetic systems in solution. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1985 , 17, 141-185	10.4	180
6	A potassium-39 NMR study of potassium binding to double-helical DNA. <i>FEBS Journal</i> , 1984 , 142, 133-7		24
5	Dipole-dipole nuclear spin relaxation. <i>Molecular Physics</i> , 1983 , 50, 515-530	1.7	36
4	Applicability of the Solomon-Bloembergen equation to the study of paramagnetic transition metal-water complexes. An ab initio SCF-MO study. <i>Journal of the American Chemical Society</i> , 1982 , 104, 379-382	16.4	51
3	A nonempirical SCFMO study of the validity of the SolomonBloembergen equation for the hexa-aquonickel (II) ion. <i>Journal of Chemical Physics</i> , 1981 , 74, 2927-2930	3.9	37
2	Kinetics for ligand exchange in paramagnetic complexes of Ni(DPM) ₂ with nitrogen, oxygen and sulfur ligands. A carbon-13 NMR relaxation study. <i>Inorganica Chimica Acta</i> , 1980 , 40, X97-X98	2.7	
1	DNADNA Interactions209-237		4