

# Stephen D Levene

## List of Publications by Year in descending order

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46  
papers

2,000  
citations

393982

19  
h-index

329751

37  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1599  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformational and thermodynamic properties of supercoiled DNA. <i>Journal of Molecular Biology</i> , 1992, 227, 1224-1243.	2.0	311
2	Telomere Shortening Is Proportional to the Size of the G-rich Telomeric 3' Overhang. <i>Journal of Biological Chemistry</i> , 2000, 275, 19719-19722.	1.6	228
3	[1] DNA bending, flexibility, and helical repeat by cyclization kinetics. <i>Methods in Enzymology</i> , 1992, 212, 3-29.	0.4	201
4	Problems and prospects in the theory of gel electrophoresis of DNA. <i>Quarterly Reviews of Biophysics</i> , 1992, 25, 171-204.	2.4	143
5	Bending and flexibility of kinetoplast DNA. <i>Biochemistry</i> , 1986, 25, 3988-3995.	1.2	133
6	Ring closure probabilities for DNA fragments by Monte Carlo simulation. <i>Journal of Molecular Biology</i> , 1986, 189, 61-72.	2.0	110
7	A Computer Graphics Study of Sequence-Directed Bending in DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 1983, 1, 429-435.	2.0	99
8	Intricate and Cell Type-Specific Populations of Endogenous Circular DNA (eccDNA) in <i>Caenorhabditis elegans</i> and <i>Homo sapiens</i> . <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 3295-3303.	0.8	87
9	Anomalous Rapid Electrophoretic Mobility of DNA Containing Triplet Repeats Associated with Human Disease Genes. <i>Biochemistry</i> , 1995, 34, 16125-16131.	1.2	83
10	Statistical-Mechanical Theory of DNA Looping. <i>Biophysical Journal</i> , 2006, 90, 1903-1912.	0.2	77
11	Topological distributions and the torsional rigidity of DNA. <i>Journal of Molecular Biology</i> , 1986, 189, 73-83.	2.0	73
12	Analysis of In-Vivo LacR-Mediated Gene Repression Based on the Mechanics of DNA Looping. <i>PLoS ONE</i> , 2006, 1, e136.	1.1	56
13	DNA Topology and Geometry in Flp and Cre Recombination. <i>Journal of Molecular Biology</i> , 2006, 357, 1089-1104.	2.0	56
14	Functional 20S proteasomes in mature human red blood cells. <i>Experimental Biology and Medicine</i> , 2011, 236, 580-591.	1.1	56
15	Fractionation of SWNT/nucleic acid complexes by agarose gel electrophoresis. <i>Nanotechnology</i> , 2006, 17, 4263-4269.	1.3	51
16	DNA-sequence asymmetry directs the alignment of recombination sites in the FLP synaptic complex. <i>Journal of Molecular Biology</i> , 1999, 286, 1-13.	2.0	25
17	The thermodynamics of DNA loop formation, from <i>J</i> to <i>Z</i> . <i>Biochemical Society Transactions</i> , 2013, 41, 513-518.	1.6	23
18	Supercoiling-dependent flexibility of adenosine-tract-containing DNA detected by a topological method. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 2817-2822.	3.3	22

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19	Exactly solvable reptation model. <i>Physical Review A</i> , 1989, 39, 6557-6566.	1.0	21
20	Gel mobilities of linking-number topoisomers and their dependence on DNA helical repeat and elasticity. <i>Biophysical Chemistry</i> , 2010, 148, 104-111.	1.5	21
21	Kinetic pathways of topology simplification by Type-II topoisomerases in knotted supercoiled DNA. <i>Nucleic Acids Research</i> , 2019, 47, 69-84.	6.5	19
22	Measurements of DNA-loop formation via Cre-mediated recombination. <i>Nucleic Acids Research</i> , 2012, 40, 7452-7464.	6.5	18
23	Contribution of Fluorophore Dynamics and Solvation to Resonant Energy Transfer in Protein-DNA Complexes: A Molecular-Dynamics Study. <i>Biophysical Journal</i> , 2014, 107, 700-710.	0.2	16
24	Analysis of DNA Topoisomers, Knots, and Catenanes by Agarose Gel Electrophoresis. <i>Methods in Molecular Biology</i> , 2009, 582, 11-25.	0.4	12
25	Deconvolution of nucleic-acid length distributions: a gel electrophoresis analysis tool and applications. <i>Nucleic Acids Research</i> , 2019, 47, e92-e92.	6.5	10
26	Free-energy calculations for semi-flexible macromolecules: Applications to DNA knotting and looping. <i>Journal of Chemical Physics</i> , 2014, 141, 174902.	1.2	8
27	ELECTROPHORETIC FRACTIONATION OF CARBON NANOTUBE DISPERSIONS ON AGAROSE GELS. <i>International Journal of Nanoscience</i> , 2007, 06, 1-7.	0.4	6
28	Analysis of Chemical and Enzymatic Cleavage Frequencies in Supercoiled DNA. <i>Journal of Molecular Biology</i> , 2004, 336, 1087-1102.	2.0	5
29	DNA-Topology Simplification by Topoisomerases. <i>Molecules</i> , 2021, 26, 3375.	1.7	5
30	Analysis of DNA Knots and Catenanes by Agarose-Gel Electrophoresis. , 1999, 94, 75-86.		4
31	DNA cyclization and looping in the wormlike limit: Normal modes and the validity of the harmonic approximation. <i>Biopolymers</i> , 2015, 103, 528-538.	1.2	4
32	Understanding DNA Looping Through Cre-Recombination Kinetics. <i>Natural Computing Series</i> , 2014, , 405-418.	2.2	3
33	PCR-BASED SYNTHESIS OF REPETITIVE SINGLE-STRANDED DNA FOR APPLICATIONS TO NANOBIO TECHNOLOGY. <i>International Journal of Nanoscience</i> , 2005, 04, 287-294.	0.4	2
34	Structural Aspects of RecA-Dependent Homologous Strand Exchange Involving Human Telomeric DNA. <i>Biochemistry</i> , 2005, 44, 4817-4828.	1.2	2
35	Loop-closure kinetics reveal a stable, right-handed DNA intermediate in Cre recombination. <i>Nucleic Acids Research</i> , 2020, 48, 4371-4381.	6.5	2
36	Recombination. , 0, , 227-241.		1

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37	Evaluating Partition Functions for Multiscale Models of DNA. Progress of Theoretical Physics Supplement, 2011, 191, 109-129.	0.2	1
38	Preface. Biopolymers, 2015, 103, 469-469.	1.2	1
39	Introduction to DNA Topology. Natural Computing Series, 2014, , 327-345.	2.2	1
40	Bulge Defects Do Not Destabilize Negatively Supercoiled DNA. Biophysical Journal, 2005, 89, L43-L45.	0.2	0
41	Microarray-Based Hybridization Technology for Biosensors. , 2008, , .		0
42	Investigating Cre-Recombinase-Mediated DNA Looping using FRET. Biophysical Journal, 2014, 106, 691a.	0.2	0
43	Preface. Biopolymers, 2015, 103, 417-417.	1.2	0
44	Quantitation of Surface-Conjugated DNA Density for Single-Molecule Applications. Biophysical Journal, 2018, 114, 543a.	0.2	0
45	Circulomics: The Structural Genomics of Endogenous and Exogenous Extrachromosomal Circular DNAs. Biophysical Journal, 2018, 114, 83a.	0.2	0
46	Closing the Loop on Protein-DNA Interactions: Interplay Between Shape and Flexibility in Nucleoprotein Assemblies Having Implications for Biological Regulation. The IMA Volumes in Mathematics and Its Applications, 2009, , 195-212.	0.5	0