

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	DNA-Topology Simplification by Topoisomerases. <i>Molecules</i> , 2021, 26, 3375.	1.7	5
2	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
3	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
4	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
5	Quantitation of Surface-Conjugated DNA Density for Single-Molecule Applications. <i>Biophysical Journal</i> , 2018, 114, 543a.	0.2	0
6	Circulomics: The Structural Genomics of Endogenous and Exogenous Extrachromosomal Circular DNAs. <i>Biophysical Journal</i> , 2018, 114, 83a.	0.2	0
7	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
8	Preface. <i>Biopolymers</i> , 2015, 103, 417-417.	1.2	0
9	Preface. <i>Biopolymers</i> , 2015, 103, 469-469.	1.2	1
10	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
11	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
12	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
13	Investigating Cre-Recombinase-Mediated DNA Looping using FRET. <i>Biophysical Journal</i> , 2014, 106, 691a.	0.2	0
14	Understanding DNA Looping Through Cre-Recombination Kinetics. <i>Natural Computing Series</i> , 2014, , 405-418.	2.2	3
15	Introduction to DNA Topology. <i>Natural Computing Series</i> , 2014, , 327-345.	2.2	1
16	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
17	Measurements of DNA-loop formation via Cre-mediated recombination. <i>Nucleic Acids Research</i> , 2012, 40, 7452-7464.	6.5	18
18	Functional 20S proteasomes in mature human red blood cells. <i>Experimental Biology and Medicine</i> , 2011, 236, 580-591.	1.1	56

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19	Evaluating Partition Functions for Multiscale Models of DNA. Progress of Theoretical Physics Supplement, 2011, 191, 109-129.	0.2	1
20	Gel mobilities of linking-number topoisomers and their dependence on DNA helical repeat and elasticity. Biophysical Chemistry, 2010, 148, 104-111.	1.5	21
21	Analysis of DNA Topoisomers, Knots, and Catenanes by Agarose Gel Electrophoresis. Methods in Molecular Biology, 2009, 582, 11-25.	0.4	12
22	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
23	Microarray-Based Hybridization Technology for Biosensors. , 2008, , .		0
24	ELECTROPHORETIC FRACTIONATION OF CARBON NANOTUBE DISPERSIONS ON AGAROSE GELS. International Journal of Nanoscience, 2007, 06, 1-7.	0.4	6
25	Fractionation of SWNT/nucleic acid complexes by agarose gel electrophoresis. Nanotechnology, 2006, 17, 4263-4269.	1.3	51
26	Statistical-Mechanical Theory of DNA Looping. Biophysical Journal, 2006, 90, 1903-1912.	0.2	77
27	Analysis of In-Vivo LacR-Mediated Gene Repression Based on the Mechanics of DNA Looping. PLoS ONE, 2006, 1, e136.	1.1	56
28	DNA Topology and Geometry in Flp and Cre Recombination. Journal of Molecular Biology, 2006, 357, 1089-1104.	2.0	56
29	PCR-BASED SYNTHESIS OF REPETITIVE SINGLE-STRANDED DNA FOR APPLICATIONS TO NANOBIO TECHNOLOGY. International Journal of Nanoscience, 2005, 04, 287-294.	0.4	2
30	Structural Aspects of RecA-Dependent Homologous Strand Exchange Involving Human Telomeric DNA. Biochemistry, 2005, 44, 4817-4828.	1.2	2
31	Bulge Defects Do Not Destabilize Negatively Supercoiled DNA. Biophysical Journal, 2005, 89, L43-L45.	0.2	0
32	Analysis of Chemical and Enzymatic Cleavage Frequencies in Supercoiled DNA. Journal of Molecular Biology, 2004, 336, 1087-1102.	2.0	5
33	Telomere Shortening Is Proportional to the Size of the G-rich Telomeric 3' Overhang. Journal of Biological Chemistry, 2000, 275, 19719-19722.	1.6	228
34	Analysis of DNA Knots and Catenanes by Agarose-Gel Electrophoresis. , 1999, 94, 75-86.		4
35	DNA-sequence asymmetry directs the alignment of recombination sites in the FLP synaptic complex. Journal of Molecular Biology, 1999, 286, 1-13.	2.0	25
36	Supercoiling-dependent flexibility of adenosine-tract-containing DNA detected by a topological method. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2817-2822.	3.3	22

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37	Anomalous Rapid Electrophoretic Mobility of DNA Containing Triplet Repeats Associated with Human Disease Genes. <i>Biochemistry</i> , 1995, 34, 16125-16131.	1.2	83
38	[1] DNA bending, flexibility, and helical repeat by cyclization kinetics. <i>Methods in Enzymology</i> , 1992, 212, 3-29.	0.4	201
39	Conformational and thermodynamic properties of supercoiled DNA. <i>Journal of Molecular Biology</i> , 1992, 227, 1224-1243.	2.0	311
40	Problems and prospects in the theory of gel electrophoresis of DNA. <i>Quarterly Reviews of Biophysics</i> , 1992, 25, 171-204.	2.4	143
41	Exactly solvable reptation model. <i>Physical Review A</i> , 1989, 39, 6557-6566.	1.0	21
42	Ring closure probabilities for DNA fragments by Monte Carlo simulation. <i>Journal of Molecular Biology</i> , 1986, 189, 61-72.	2.0	110
43	Topological distributions and the torsional rigidity of DNA. <i>Journal of Molecular Biology</i> , 1986, 189, 73-83.	2.0	73
44	Bending and flexibility of kinetoplast DNA. <i>Biochemistry</i> , 1986, 25, 3988-3995.	1.2	133
45	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
46	Recombination. , 0, , 227-241.		1