Terence R Strick

List of Publications by Year
in descending order

		201674	138484
64 papers	5,081 citations	27 h-index	58 g-index
70 all docs	70 docs citations	70 times ranked	3492 citing authors

#	Article	IF	Citations
1	The Elasticity of a Single Supercoiled DNA Molecule. Science, 1996, 271, 1835-1837.	12.6	1,161
2	Behavior of Supercoiled DNA. Biophysical Journal, 1998, 74, 2016-2028.	0.5	466
3	Abortive Initiation and Productive Initiation by RNA Polymerase Involve DNA Scrunching. Science, 2006, 314, 1139-1143.	12.6	346
4	Single-molecule analysis of DNA uncoiling by a type II topoisomerase. Nature, 2000, 404, 901-904.	27.8	325
5	Twisting and stretching single DNA molecules. Progress in Biophysics and Molecular Biology, 2000, 74, 115-140.	2.9	317
6	Stretching of macromolecules and proteins. Reports on Progress in Physics, 2003, 66, 1-45.	20.1	230
7	Preferential relaxation of positively supercoiled DNA by E. coli topoisomerase IV in single-molecule and ensemble measurements. Genes and Development, 2000, 14, 2881-2892.	5.9	175
8	Promoter unwinding and promoter clearance by RNA polymerase: Detection by single-molecule DNA nanomanipulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4776-4780.	7.1	157
9	Homologous pairing in stretched supercoiled DNA. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10579-10583.	7.1	150
10	Real-Time Detection of Single-Molecule DNA Compaction by Condensin I. Current Biology, 2004, 14, 874-880.	3.9	140
11	Biology, one molecule at a time. Trends in Biochemical Sciences, 2009, 34, 234-243.	7.5	138
12	Stress-Induced Structural Transitions in DNA and Proteins. Annual Review of Biophysics and Biomolecular Structure, 2000, 29, 523-543.	18.3	99
13	Tracking Topoisomerase Activity at the Single-Molecule Level. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 201-219.	18.3	98
14	Initiation of transcription-coupled repair characterized at single-molecule resolution. Nature, 2012, 490, 431-434.	27.8	83
15	The Manipulation of Single Biomolecules. Physics Today, 2001, 54, 46-51.	0.3	81
16	Dissection of DNA double-strand-break repair using novel single-molecule forceps. Nature Structural and Molecular Biology, 2018, 25, 482-487.	8.2	79
17	Backtracked and paused transcription initiation intermediate of <i>Escherichia coli</i> RNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6562-E6571.	7.1	78
18	Reconstruction of bacterial transcription-coupled repair at single-molecule resolution. Nature, 2016, 536, 234-237.	27.8	78

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19	Single-molecule DNA nanomanipulation: Improved resolution through use of shorter DNA fragments. Nature Methods, 2005, 2, 127-138.	19.0	69
20	A dynamic DNA-repair complex observed by correlative single-molecule nanomanipulation and fluorescence. Nature Structural and Molecular Biology, 2015, 22, 452-457.	8.2	69
21	Micro-mechanical measurement of the torsional modulus of DNA. Genetica, 1999, 106, 57-62.	1.1	60
22	Phase coexistence in a single DNA molecule. Physica A: Statistical Mechanics and Its Applications, 1999, 263, 392-404.	2.6	56
23	Mechanism of efficient double-strand break repair by a long non-coding RNA. Nucleic Acids Research, 2020, 48, 10953-10972.	14.5	43
24	A modular DNA scaffold to study proteinâ€“protein interactions at single-molecule resolution. Nature Nanotechnology, 2019, 14, 988-993.	31.5	41
25	Single-Molecule Studies Using Magnetic Traps. Cold Spring Harbor Protocols, 2012, 2012, pdb.top067488.	0.3	39
26	TopA, the Sulfolobus solfataricus topoisomerase III, is a decatenase. Nucleic Acids Research, 2018, 46, 861-872.	14.5	39
27	Topoisomerase IV Bends and Overtwists DNA upon Binding. Biophysical Journal, 2005, 89, 384-392.	0.5	31
28	A highly processive topoisomerase I: studies at the single-molecule level. Nucleic Acids Research, 2014, 42, 7935-7946.	14.5	31
29	C-terminal lysine repeats in Streptomyces topoisomerase I stabilize the enzymeâ€“DNA complex and confer high enzyme processivity. Nucleic Acids Research, 2017, 45, 11908-11924.	14.5	30
30	Topological characterization of the DnaAâ€“oriC complex using single-molecule nanomanipuation. Nucleic Acids Research, 2012, 40, 7375-7383.	14.5	27
31	Magnetic Trap Construction: Figure 1.. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot067496.	0.3	26
32	The unstructured linker arms of MutL enable GATC site incision beyond roadblocks during initiation of DNA mismatch repair. Nucleic Acids Research, 2019, 47, 11667-11680.	14.5	26
33	Real-time detection of cruciform extrusion by single-molecule DNA nanomanipulation. Nucleic Acids Research, 2011, 39, 4275-4283.	14.5	25
34	Cotranscriptional R-loop formation by Mfd involves topological partitioning of DNA. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
35	Single-Molecule DNA Nanomanipulation: Detection of Promoter-Unwinding Events by RNA Polymerase. Methods in Enzymology, 2003, 370, 577-598.	1.0	23
36	The mechanism of variability in transcription start site selection. ELife, 2017, 6, .	6.0	23

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37	Dynamics of Ku and bacterial non-homologous end-joining characterized using single DNA molecule analysis. Nucleic Acids Research, 2021, 49, 2629-2641.	14.5	22
38	Physical Approaches to the Study of DNA. Journal of Statistical Physics, 1998, 93, 647-672.	1.2	21
39	Transcription-Coupled Repair: From Cells to Single Molecules and Back Again. Journal of Molecular Biology, 2019, 431, 4093-4102.	4.2	20
40	Tracking enzymatic steps of DNA topoisomerases using single-molecule micromanipulation. Comptes Rendus Physique, 2002, 3, 595-618.	0.9	14
41	Transcription-Coupled Repair and Complex Biology. Journal of Molecular Biology, 2018, 430, 4496-4512.	4.2	14
42	Single-molecule characterization of extrinsic transcription termination by Sen1 helicase. Nature Communications, 2019, 10, 1545.	12.8	13
43	Direct observation of helicaseâ€"topoisomerase coupling within reverse gyrase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10856-10864.	7.1	11
44	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. Microbial Cell, 2019, 6, 65-101.	3.2	10
45	FtsK: a groovy helicase. Nature Structural and Molecular Biology, 2006, 13, 948-950.	8.2	9
46	Preparation of DNA Substrates and Functionalized Glass Surfaces for Correlative Nanomanipulation and Colocalization (NanoCOSM) of Single Molecules. Methods in Enzymology, 2017, 582, 275-296.	1.0	9
47	Study of DNA Motors by Single Molecule Micromanipulation. Single Molecules, 2000, 1, 145-151.	0.9	7
48	Stopped in its tracks: The RNA polymerase molecular motor as a robust sensor of DNA damage. DNA Repair, 2014, 20, 49-57.	2.8	7
49	Molecular scaffolds: when DNA becomes the hardware for single-molecule investigations. Current Opinion in Chemical Biology, 2019, 53, 192-203.	6.1	7
50	Understanding bias in DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2791-2793.	7.1	5
51	Simple calibration of TIR field depth using the supercoiling response of DNA. Methods, 2016, 105, 56-61.	3.8	4
52	A measure of force. Current Opinion in Chemical Biology, 2019, 53, A4-A6.	6.1	4
53	Chromatin Remodeling: RSC Motors along the DNA. Current Biology, 2006, 16, R287-R289.	3.9	3
54	Optical investigations of the RNA polymerase molecular motor. Journal of Biophotonics, 2008, 1, 269-279.	2.3	3

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55	Mfd as a central partner of transcription coupled repair. Transcription, 2013, 4, 109-113.	3.1	3
56	Dynamics and Binding Strength of the Spike Protein of Sars-Cov-2 Probed by High-Speed Atomic Force Microscopy. Biophysical Journal, 2021, 120, 3a.	0.5	2
57	Le jokari molÃ©culaire. Biofutur, 1999, 1999, 26-27.	0.0	1
58	Micro-Mechanical Measurement of the Torsional Modulus of DNA. , 1999, , 87-96.		1
59	Twisting and stretching single DNA molecules. , 2001, , 115-140.		1
60	Eeny meeny miny moe, catch a transcript by the toe, or how to enumerate eukaryotic transcripts: Figure 1.. Genes and Development, 2012, 26, 1643-1647.	5.9	0
61	Magnetic trapping of single molecules: principles, developments, and applications. , 2013, , .		0
62	Unlocking the secrets of fork arrest. Nature Chemical Biology, 2015, 11, 550-551.	8.0	0
63	Identifying Evolutionarily Conserved Features of NHEJ from Prokaryotes to Eukaryotes using Single-Molecule Approaches. Biophysical Journal, 2020, 118, 374a.	0.5	0
64	Watching single molecules in action. ELife, 2014, 3, e02061.	6.0	0