Andrew Travers

List of Publications by Year
in descending order

60 papers	3,753 citations	159358 30 h-index	138251 58 g-index
64 all docs	64 docs citations	64 times ranked	2873 citing authors

#	Article	IF	Citations
1	DNA supercoiling â€" a global transcriptional regulator for enterobacterial growth?. Nature Reviews Microbiology, 2005, 3, 157-169.	13.6	286
2	H-NS cooperative binding to high-affinity sites in a regulatory element results in transcriptional silencing. Nature Structural and Molecular Biology, 2007, 14, 441-448.	3.6	240
3	High-affinity DNA binding sites for H-NS provide a molecular basis for selective silencing within proteobacterial genomes. Nucleic Acids Research, 2007, 35, 6330-6337.	6.5	231
4	Position and orientation of the globular domain of linker histone H5 on the nucleosome. Nature, 1998, 395, 402-405.	13.7	205
5	Gene order and chromosome dynamics coordinate spatiotemporal gene expression during the bacterial growth cycle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E42-50.	3.3	190
6	Homeostatic regulation of supercoiling sensitivity coordinates transcription of the bacterial genome. EMBO Reports, 2006, 7, 710-715.	2.0	162
7	Highly disordered histone H1â^'DNA model complexes and their condensates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11964-11969.	3.3	161
8	<scp>DNA</scp> structure and function. FEBS Journal, 2015, 282, 2279-2295.	2.2	151
9	A DNA architectural protein couples cellular physiology and DNA topology in Escherichia coli. Molecular Microbiology, 1999, 34, 953-964.	1.2	150
10	Control of Ribosomal RNA Synthesis in vitro. Nature, 1973, 244, 15-18.	13.7	149
11	RNA polymerase specificity and the control of growth. Nature, 1976, 263, 641-646.	13.7	134
12	Bacterial chromatin. Current Opinion in Genetics and Development, 2005, 15, 507-514.	1.5	133
13	FIS modulates growth phaseâ€dependent topological transitions of DNA in Escherichia coli. Molecular Microbiology, 1997, 26, 519-530.	1.2	124
14	The expression of the Escherichia coli fis gene is strongly dependent on the superhelical density of DNA. Molecular Microbiology, 2000, 38, 167-175.	1.2	104
15	Coordination of genomic structure and transcription by the main bacterial nucleoidâ€associated protein HU. EMBO Reports, 2010, 11, 59-64.	2.0	102
16	The regulatory role of DNA supercoiling in nucleoprotein complex assembly and genetic activity. Biophysical Reviews, 2016, 8, 5-22.	1.5	87
17	Control of Transcription in Bacteria. Nature: New Biology, 1971, 229, 69-74.	4.5	82
18	DNA Bending Induced by High Mobility Group Proteins Studied by Fluorescence Resonance Energy Transferâ€. Biochemistry, 1999, 38, 12150-12158.	1.2	72

#	Article	IF	Citations
19	DNA microloops and microdomains: a general mechanism for transcription activation by torsional transmission. Journal of Molecular Biology, 1998, 279, 1027-1043.	2.0	70
20	DNA wrapping and writhing. Nature, 1987, 327, 280-281.	13.7	67
21	Mechanism of Transcriptional Activation by FIS: Role of Core Promoter Structure and DNA Topology. Journal of Molecular Biology, 2003, 331, 331-344.	2.0	59
22	Effect of DNA Conformation on Ribosomal RNA Synthesis in vitro. Nature: New Biology, 1973, 243, 161-163.	4.5	54
23	DNA thermodynamic stability and supercoil dynamics determine the gene expression program during the bacterial growth cycle. Molecular BioSystems, 2013, 9, 1643.	2.9	54
24	RNA polymerase and an activator form discrete subcomplexes in a transcription initiation complex. EMBO Journal, 2006, 25, 3784-3790.	3.5	47
25	Transcription factor as a topological homeostat. Frontiers in Bioscience - Landmark, 2003, 8, d279-285.	3.0	45
26	Chromosomal position shift of a regulatory gene alters the bacterial phenotype. Nucleic Acids Research, 2015, 43, 8215-8226.	6.5	45
27	Heterogeneity of E. coli RNA Polymerase. Nature: New Biology, 1973, 243, 257-260.	4.5	41
28	On the Nature of DNA Promoter Conformations. The Effects of Glycerol and Dimethylsulphoxide. FEBS Journal, 1974, 47, 435-441.	0.2	38
29	ppGpp cycle in Escherichia coli. Molecular Genetics and Genomics, 1977, 150, 249-255.	2.4	38
30	Inhibition of translation initiation complex formation by MS1. FEBS Letters, 1972, 23, 163-166.	1.3	35
31	The DNA Sequence-dependence of Nucleosome Positioning<i>in vivo</i>and<i>in vitro</i>. Journal of Biomolecular Structure and Dynamics, 2010, 27, 713-724.	2.0	35
32	DNA recognition and nucleosome organization. , 1997, 44, 423-433.		31
33	Gene expression: Protein contacts for promoter location in eukaryotes. Nature, 1983, 303, 755-755.	13.7	28
34	Integration of syntactic and semantic properties of the DNA code reveals chromosomes as thermodynamic machines converting energy into information. Cellular and Molecular Life Sciences, 2013, 70, 4555-4567.	2.4	26
35	The role of histone H1 in chromatin condensation and transcriptional repression. Genetica, 1999, 106, 117-124.	0.5	25
36	Selective Inhibition of tRNATyr Transcription by Guanosine 3'-Diphosphate 5'-Diphosphate. FEBS Journal, 1977, 72, 515-523.	0.2	22

#	Article	IF	Citations
37	Why ppGpp?. Nature, 1980, 283, 16-16.	13.7	21
38	DNA Dynamics: Bubble â€˜nâ€™ Flip for DNA Cyclisation?. Current Biology, 2005, 15, R377-R379.	1.8	21
39	Structural Insights into the Mechanism of Negative Regulation of Single-box High Mobility Group Proteins by the Acidic Tail Domain. Journal of Biological Chemistry, 2014, 289, 29817-29826.	1.6	20
40	The Evolution of the Genetic Code Revisited. Origins of Life and Evolution of Biospheres, 2007, 36, 549-555.	0.8	19
41	Upstream Binding of Idling RNA Polymerase Modulates Transcription Initiation from a Nearby Promoter. Journal of Biological Chemistry, 2015, 290, 8095-8109.	1.6	18
42	End of the line? Tramtrack and cell fate determination in Drosophila. Genes To Cells, 1996, 1, 707-716.	0.5	12
43	A metastable structure for the compact 30â€nm chromatin fibre. FEBS Letters, 2016, 590, 935-942.	1.3	12
44	Chromosomal Organization and Regulation of Genetic Function in <i>Escherichia coli</i> Integrates the DNA Analog and Digital Information. EcoSal Plus, 2020, 9, .	2.1	12
45	Gene expression: Regulation by anti-sense RNA. Nature, 1984, 311, 410-410.	13.7	11
46	Composition of Transcription Machinery and Its Crosstalk with Nucleoid-Associated Proteins and Global Transcription Factors. Biomolecules, 2021, 11, 924.	1.8	11
47	The chromosomal protein HMG-D binds to the TAR and RBE RNA of HIV-1. FEBS Letters, 2000, 485, 47-52.	1.3	10
48	High-resolution biophysical analysis of the dynamics of nucleosome formation. Scientific Reports, 2016, 6, 27337.	1.6	10
49	The 30-nm Fiber Redux. Science, 2014, 344, 370-372.	6.0	9
50	Effect of H1 protein on in vitro ribosomal RNA synthesis. FEBS Letters, 1974, 43, 86-88.	1.3	6
51	Exchange of the sigma subunit of RNA polymerase. FEBS Letters, 1975, 53, 76-79.	1.3	6
52	Modelling and DNA topology of compact 2-start and 1-start chromatin fibres. Nucleic Acids Research, 2019, 47, 9902-9924.	6.5	6
53	DNA-binding proteins (reply). Nature, 1984, 308, 754-754.	13.7	5
54	DNA Topology: Dynamic DNA Looping. Current Biology, 2006, 16, R838-R840.	1.8	5

#	Article	IF	Citations
55	Dynamic DNA Underpins Chromosome Dynamics. Biophysical Journal, 2013, 105, 2235-2237.	0.2	5
56	Generation of Remosomes by the SWI/SNF Chromatin Remodeler Family. Scientific Reports, 2019, 9, 14212.	1.6	4
57	RNA processing. Nature, 1978, 275, 365-365.	13.7	3
58	Spatiotemporal Coupling of DNA Supercoiling and Genomic Sequence Organizationâ€"A Timing Chain for the Bacterial Growth Cycle?. Biomolecules, 2022, 12, 831.	1.8	3
59	Mechanism of transcription termination. Nature, 1978, 272, 398-398.	13.7	1
60	Michael Waringâ€"A scientific life in DNA. Biopolymers, 2021, 112, e23408.	1.2	0