Thomas D Tullius

List of Publications by Year
in descending order

82	13,663	66343 42	71685 76
papers	citations	h-index	g-index

112	112	112	16804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental maps of DNA structure at nucleotide resolution distinguish intrinsic from protein-induced DNA deformations. Nucleic Acids Research, 2018, 46, 2636-2647.	14.5	25
2	GBshape: a genome browser database for DNA shape annotations. Nucleic Acids Research, 2015, 43, D103-D109.	14.5	58
3	Deuterated nucleotides as chemical probes of RNA structure: a detailed protocol for the enzymatic synthesis of a complete set of nucleotides specifically deuterated at ribose carbons. ScienceOpen Research, 2015, .	0.6	0
4	Chemical probing of RNA with the hydroxyl radical at single-atom resolution. Nucleic Acids Research, 2014, 42, 12758-12767.	14.5	20
5	Comparative analysis of metazoan chromatin organization. Nature, 2014, 512, 449-452.	27.8	363
6	A Map of Minor Groove Shape and Electrostatic Potential from Hydroxyl Radical Cleavage Patterns of DNA. ACS Chemical Biology, 2011, 6, 1314-1320.	3.4	78
7	Evolutionary Constraint on DNA Shape in the Human Genome. , 2011, , 243-256.		0
8	A User's Guide to the Encyclopedia of DNA Elements (ENCODE). PLoS Biology, 2011, 9, e1001046.	5.6	1,257
9	DNA shape, genetic codes, and evolution. Current Opinion in Structural Biology, 2011, 21, 342-347.	5.7	37
10	A Computational Method to Search for DNA Structural Motifs in Functional Genomic Elements. Methods in Molecular Biology, 2011, 759, 367-379.	0.9	0
11	Local DNA Topography Correlates with Functional Noncoding Regions of the Human Genome. Science, 2009, 324, 389-392.	12.6	188
12	Footprinting proteinâ€“DNA complexes using the hydroxyl radical. Nature Protocols, 2008, 3, 1092-1100.	12.0	93
13	Detection of DNA structural motifs in functional genomic elements. Genome Research, 2007, 17, 940-946.	5.5	22
14	Construction of a genome-scale structural map at single-nucleotide resolution. Genome Research, 2007, 17, 947-953.	5.5	63
15	Effects of Discontinuities in the DNA Template on Abortive Initiation and Promoter Escape by Escherichia coli RNA Polymerase. Journal of Biological Chemistry, 2007, 282, 26917-26927.	3.4	4
16	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. Nature, 2007, 447, 799-816.	27.8	4,709
17	Mapping nucleic acid structure by hydroxyl radical cleavage. Current Opinion in Chemical Biology, 2005, 9, 127-134.	6.1	173
18	Platinum anticancer drug damage enforces a particular rotational setting of DNA in nucleosomes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12311-12316.	7.1	61

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19	Research Corporation and John Schaefer. Science, 2004, 306, 1133c-1133c.	12.6	1
20	Gapped DNA is anisotropically bent. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3743-3747.	7.1	31
21	Interchange of DNA-binding Modes in the Deformed and Ultrabithorax Homeodomains: A Structural Role for the N-terminal Arm. Journal of Molecular Biology, 2002, 323, 665-683.	4.2	13
22	A general synthesis of specifically deuterated nucleotides for studies of DNA and RNA. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 3093-3096.	2.2	20
23	Probing DNA Structure with Hydroxyl Radicals. Current Protocols in Nucleic Acid Chemistry, 2001, 7, Unit 6.7.	0.5	3
24	The Roles of Specific Template Nucleosides in the Formation of Stable Transcription Complexes by Escherichia coli RNA Polymerase. Journal of Biological Chemistry, 2000, 275, 6885-6893.	3.4	6
25	Calicheamicinâ˜Homeodomain Conjugate as an Efficient, Sequence-Specific DNA Cleavage and Mapping Tool. Journal of the American Chemical Society, 2000, 122, 12884-12885.	13.7	12
26	High-Resolution in Vivo Footprinting of a Proteinâ˜DNA Complex Using Î³-Radiation. Journal of the American Chemical Society, 2000, 122, 5901-5902.	13.7	35
27	The Yeast Transcription Factor Mac1 Binds to DNA in a Modular Fashion. Journal of Biological Chemistry, 1999, 274, 26962-26967.	3.4	42
28	Nucleosome Structural Features and Intrinsic Properties of the TATAAACGCC Repeat Sequence. Journal of Biological Chemistry, 1999, 274, 31847-31852.	3.4	72
29	Oxidative Strand Scission of Nucleic Acids:â€‰ Routes Initiated by Hydrogen Abstraction from the Sugar Moiety. Chemical Reviews, 1998, 98, 1089-1108.	47.7	989
30	The DNA binding specificity of engrailed homeodomain. Journal of Molecular Biology, 1998, 276, 529-536.	4.2	19
31	DNA strand breaking by the hydroxyl radical is governed by the accessible surface areas of the hydrogen atoms of the DNA backbone. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9738-9743.	7.1	487
32	Quantitative analysis of electrophoresis data: novel curve fitting methodology and its application to the determination of a protein--DNA binding constant. Nucleic Acids Research, 1997, 25, 850-860.	14.5	53
33	The solution structure of the amino-terminal HHCC domain of HIV-2 integrase: a three-helix bundle stabilized by zinc. Current Biology, 1997, 7, 739-746.	3.9	134
34	Effect of the Crystallizing Agent 2-Methyl-2,4-pentanediol on the Structure of Adenine Tract DNA in Solution. Biochemistry, 1996, 35, 13729-13732.	2.5	33
35	CUP2 binds in a bipartite manner to upstream activation sequence c in the promoter of the yeast copper metallothionein gene. Journal of Biological Inorganic Chemistry, 1996, 1, 451-459.	2.6	10
36	Chemical probe and missing nucleoside analysis of Flp recombinase bound to the recombination target sequence. Nucleic Acids Research, 1995, 23, 3009-3017.	14.5	15

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37	Role of the Aryl Iodide in the Sequence-Selective Cleavage of DNA by Calicheamicin. Importance of Thermodynamic Binding vs. Kinetic Activation in the Cleavage Process. Journal of the American Chemical Society, 1995, 117, 8074-8082.	13.7	31
38	What Species Is Responsible for Strand Scission in the Reaction of [FeIIEDTA]2- and H2O2 with DNA?. Journal of the American Chemical Society, 1995, 117, 6428-6433.	13.7	146
39	Cleavage by Calicheamicin .gamma.1I of DNA in a Nucleosome Formed on the 5S RNA Gene of Xenopus borealis. Biochemistry, 1995, 34, 3899-3906.	2.5	46
40	Homeodomain Proteins: What Governs Their Ability to Recognize Specific DNA Sequences?. Journal of Molecular Biology, 1995, 250, 595-608.	4.2	24
41	Features of DNA recognition for oriented binding and cleavage by calicheamicin. Tetrahedron, 1994, 50, 1361-1378.	1.9	29
42	Hydroxyl radical footprinting of calicheamicin. Relationship of DNA binding to cleavage. Biochemistry, 1994, 33, 614-621.	2.5	27
43	Structure of DNA in a nucleosome core at high salt concentration and at high temperature. Biochemistry, 1993, 32, 1895-1898.	2.5	34
44	Sequence-specific cleavage of DNA via nucleophilic attack of hydrogen peroxide, assisted by flp recombinase. Biochemistry, 1993, 32, 4698-4701.	2.5	41
45	How the structure of an adenine tract depends on sequence context: a new model for the structure of TnAn DNA sequences. Biochemistry, 1993, 32, 127-136.	2.5	58
46	Hydroxyl Radical Footprinting. , 1993, , 75-106.		2
47	[11] Using hydroxyl radical to probe DNA structure. Methods in Enzymology, 1992, 212, 194-219.	1.0	91
48	Structure of the TFIIIA-5 S DNA complex. Journal of Molecular Biology, 1992, 227, 407-417.	4.2	90
49	[19] Hydroxyl radical footprinting. Methods in Enzymology, 1991, 208, 380-413.	1.0	204
50	The histone core exerts a dominant constraint on the structure of DNA in a nucleosome. Biochemistry, 1991, 30, 8434-8440.	2.5	82
51	Evidence from EXAFS for a copper cluster in the metalloregulatory protein CUP2 from yeast. Journal of the American Chemical Society, 1991, 113, 3621-3623.	13.7	34
52	The use of chemical probes to analyse DNA and RNA structures. Current Opinion in Structural Biology, 1991, 1, 428-434.	5.7	9
53	Bioinorganic chemistry. Journal of Cellular Biochemistry, 1991, 45, 5-6.	2.6	0
54	DNA Footprinting with the Hydroxyl Radical. Free Radical Research Communications, 1991, 13, 521-529.	1.8	18

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55	Using the Chemistry of the Hydroxyl Radical to Determine Structural Details about DNA and Protein-DNA Complexes. , 1991, , 133-144.		3
56	[56] Footprinting protein-DNA complexes with Î³-rays. Methods in Enzymology, 1990, 186, 545-549.	1.0	55
57	Mode of interaction of the zinc finger protein TFIIIA with a 5S RNA gene of Xenopus.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 5528-5532.	7.1	67
58	The structure of DNA in a nucleosome.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 7405-7409.	7.1	347
59	Detection of drug binding to DNA by hydroxyl radical footprinting. Relationship of distamycin binding sites to DNA structure and positioned nucleosomes on 5S RNA genes of Xenopus. Biochemistry, 1990, 29, 6043-6050.	2.5	61
60	A Single Amino Acid Change in CUP2 Alters Its Mode of DNA Binding. Molecular and Cellular Biology, 1990, 10, 4778-4787.	2.3	15
61	Metals and Molecular Biology. ACS Symposium Series, 1989, , 1-23.	0.5	14
62	Use of the hydroxyl radical and gel electrophoresis to study DNA structure. Electrophoresis, 1989, 10, 397-404.	2.4	33
63	The missing nucleoside experiment: a new technique to study recognition of DNA by protein. Biochemistry, 1989, 28, 9521-9527.	2.5	111
64	High-Resolution Footprints of the DNA-Binding Domain of Epstein- Barr Virus Nuclear Antigen 1. Molecular and Cellular Biology, 1989, 9, 2738-2742.	2.3	21
65	Structural details of an adenine tract that does not cause DNA to bend. Nature, 1988, 331, 455-457.	27.8	175
66	DNA footprinting with hydroxyl radical. Nature, 1988, 332, 663-664.	27.8	95
67	Construction and analysis of monomobile DNA junctions. Biochemistry, 1988, 27, 6032-6038.	2.5	104
68	A Holliday recombination intermediate is twofold symmetric.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 4653-4656.	7.1	221
69	[33] Hydroxyl radical footprinting: A high-resolution method for mapping protein-DNA contacts. Methods in Enzymology, 1987, 155, 537-558.	1.0	305
70	The unusual conformation adopted by the adenine tracts in kinetoplast DNA. Cell, 1987, 48, 935-943.	28.9	371
71	Chemical â€˜snapshotsâ€™ of DNA: using the hydroxyl radical to study the structure of DNA and DNA-protein complexes. Trends in Biochemical Sciences, 1987, 12, 297-300.	7.5	99
72	Hydroxyl radical "footprinting": high-resolution information about DNA-protein contacts and application to lambda repressor and Cro protein.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 5469-5473.	7.1	548

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73	Iron(II) EDTA used to measure the helical twist along any DNA molecule. Science, 1985, 230, 679-681.	12.6	319
74	Structural Chemistry of Platinumâ€"DNA Adducts. ACS Symposium Series, 1983, , 51-74.	0.5	7
75	Ethidium bromide changes the nuclease-sensitive DNA binding sites of the antitumor drug cis-diamminedichloroplatinum(II).. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 3489-3492.	7.1	44
76	Inhibition of the BamHI cleavage and unwinding of pBR322 deoxyribonucleic acid by the antitumor drug cis-dichlorodiammineplatinum(II). Biochemistry, 1981, 20, 3744-3748.	2.5	144
77	cis-Diamminedichloroplatinum(II) binds in a unique manner to oligo(dG).oligo(dC) sequences in DNA - a new assay using exonuclease III. Journal of the American Chemical Society, 1981, 103, 4620-4622.	13.7	108
78	Structural study of the vanadium complex in living ascidian blood cells by x-ray absorption spectroscopy. Journal of the American Chemical Society, 1980, 102, 5670-5676.	13.7	100
79	The molybdenum site of xanthine oxidase. Structural evidence from x-ray absorption spectroscopy. Journal of the American Chemical Society, 1979, 101, 2776-2779.	13.7	115
80	Characterization of the blue copper site in oxidized azurin by extended x-ray absorption fine structure: Determination of a short Cu--S distance. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 4069-4073.	7.1	72
81	Molecular structure of trans-bis(benzeneselenido)[difluoro-3,3'-(trimethylenedinitrilo)bis(2-pentanone) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 417 Tc		
82	Kinetics of spontaneous thermal reduction of cis-tetraaquodiamminecobalt(III), cis-diaquobis-(trimethylenediamine)cobalt(III) and 1,2,3-triaquo-N-(2-aminoethyl)-1,3-diaminopropanecobalt(III) cations in hot aqueous perchloric acid. Journal of Inorganic and Nuclear Chemistry, 1973, 35, 3857-3864.	0.5	2