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	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
2	A User's Guide to the Encyclopedia of DNA Elements (ENCODE). PLoS Biology, 2011, 9, e1001046.	5.6	1,257
3	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
4	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
5	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
6	The unusual conformation adopted by the adenine tracts in kinetoplast DNA. Cell, 1987, 48, 935-943.	28.9	371
7	Comparative analysis of metazoan chromatin organization. Nature, 2014, 512, 449-452.	27.8	363
8	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
9	Iron(II) EDTA used to measure the helical twist along any DNA molecule. Science, 1985, 230, 679-681.	12.6	319
10	[33] Hydroxyl radical footprinting: A high-resolution method for mapping protein-DNA contacts. Methods in Enzymology, 1987, 155, 537-558.	1.0	305
11	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
12	[19] Hydroxyl radical footprinting. Methods in Enzymology, 1991, 208, 380-413.	1.0	204
13	Local DNA Topography Correlates with Functional Noncoding Regions of the Human Genome. Science, 2009, 324, 389-392.	12.6	188
14	Structural details of an adenine tract that does not cause DNA to bend. Nature, 1988, 331, 455-457.	27.8	175
15	Mapping nucleic acid structure by hydroxyl radical cleavage. Current Opinion in Chemical Biology, 2005, 9, 127-134.	6.1	173
16	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
17	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
18	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

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19	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
20	The missing nucleoside experiment: a new technique to study recognition of DNA by protein. Biochemistry, 1989, 28, 9521-9527.	2.5	111
21	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
22	Construction and analysis of monomobile DNA junctions. Biochemistry, 1988, 27, 6032-6038.	2.5	104
23	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
24	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
25	DNA footprinting with hydroxyl radical. Nature, 1988, 332, 663-664.	27.8	95
26	Footprinting proteinâ€“DNA complexes using the hydroxyl radical. Nature Protocols, 2008, 3, 1092-1100.	12.0	93
27	[11] Using hydroxyl radical to probe DNA structure. Methods in Enzymology, 1992, 212, 194-219.	1.0	91
28	Structure of the TFIIIA-5 S DNA complex. Journal of Molecular Biology, 1992, 227, 407-417.	4.2	90
29	The histone core exerts a dominant constraint on the structure of DNA in a nucleosome. Biochemistry, 1991, 30, 8434-8440.	2.5	82
30	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
31	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
32	Nucleosome Structural Features and Intrinsic Properties of the TATAAACGCC Repeat Sequence. Journal of Biological Chemistry, 1999, 274, 31847-31852.	3.4	72
33	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
34	Construction of a genome-scale structural map at single-nucleotide resolution. Genome Research, 2007, 17, 947-953.	5.5	63
35	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
36	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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37	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
38	GBshape: a genome browser database for DNA shape annotations. Nucleic Acids Research, 2015, 43, D103-D109.	14.5	58
39	[56] Footprinting protein-DNA complexes with Î³-rays. Methods in Enzymology, 1990, 186, 545-549.	1.0	55
40	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
41	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
42	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
43	The Yeast Transcription Factor Mac1 Binds to DNA in a Modular Fashion. Journal of Biological Chemistry, 1999, 274, 26962-26967.	3.4	42
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	DNA shape, genetic codes, and evolution. Current Opinion in Structural Biology, 2011, 21, 342-347.	5.7	37
46	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
47	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
48	Structure of DNA in a nucleosome core at high salt concentration and at high temperature. Biochemistry, 1993, 32, 1895-1898.	2.5	34
49	Use of the hydroxyl radical and gel electrophoresis to study DNA structure. Electrophoresis, 1989, 10, 397-404.	2.4	33
50	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
51	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
52	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
53	Features of DNA recognition for oriented binding and cleavage by calicheamicin. Tetrahedron, 1994, 50, 1361-1378.	1.9	29
54	Hydroxyl radical footprinting of calicheamicin. Relationship of DNA binding to cleavage. Biochemistry, 1994, 33, 614-621.	2.5	27

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55	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
56	Homeodomain Proteins: What Governs Their Ability to Recognize Specific DNA Sequences?. Journal of Molecular Biology, 1995, 250, 595-608.	4.2	24
57	Detection of DNA structural motifs in functional genomic elements. Genome Research, 2007, 17, 940-946.	5.5	22
58	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
59	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
60	Chemical probing of RNA with the hydroxyl radical at single-atom resolution. Nucleic Acids Research, 2014, 42, 12758-12767.	14.5	20
61	The DNA binding specificity of engrailed homeodomain. Journal of Molecular Biology, 1998, 276, 529-536.	4.2	19
62	DNA Footprinting with the Hydroxyl Radical. Free Radical Research Communications, 1991, 13, 521-529.	1.8	18
63	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
64	A Single Amino Acid Change in CUP2 Alters Its Mode of DNA Binding. Molecular and Cellular Biology, 1990, 10, 4778-4787.	2.3	15
65	Molecular structure of trans-bis(benzeneselenido)[difluoro-3,3'-(trimethylenedinitrilo)bis(2-pentanone) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 337 Td		
66	Metals and Molecular Biology. ACS Symposium Series, 1989, , 1-23.	0.5	14
67	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
68	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
69	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
70	The use of chemical probes to analyse DNA and RNA structures. Current Opinion in Structural Biology, 1991, 1, 428-434.	5.7	9
71	Structural Chemistry of Platinumâ€"DNA Adducts. ACS Symposium Series, 1983, , 51-74.	0.5	7
72	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

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73	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
74	Probing DNA Structure with Hydroxyl Radicals. Current Protocols in Nucleic Acid Chemistry, 2001, 7, Unit 6.7.	0.5	3
75	Using the Chemistry of the Hydroxyl Radical to Determine Structural Details about DNA and Protein-DNA Complexes. , 1991, , 133-144.		3
76	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
77	Hydroxyl Radical Footprinting. , 1993, , 75-106.		2
78	Research Corporation and John Schaefer. Science, 2004, 306, 1133c-1133c.	12.6	1
79	Bioinorganic chemistry. Journal of Cellular Biochemistry, 1991, 45, 5-6.	2.6	0
80	Evolutionary Constraint on DNA Shape in the Human Genome. , 2011, , 243-256.		0
81	A Computational Method to Search for DNA Structural Motifs in Functional Genomic Elements. Methods in Molecular Biology, 2011, 759, 367-379.	0.9	0
82	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