Juli Feigon

List of Publications by Year
in descending order

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99 papers	7,963 citations	41323 49 h-index	49868 87 g-index
105 all docs	105 docs citations	105 times ranked	5877 citing authors

#	Article	IF	Citations
1	Quadruplex structure of Oxytricha telomeric DNA oligonucleotides. Nature, 1992, 356, 164-168.	13.7	529
2	The Selectivity for K+versus Na+in DNA Quadruplexes Is Dominated by Relative Free Energies of Hydration:Â A Thermodynamic Analysis by1H NMRâ€. Biochemistry, 1996, 35, 15383-15390.	1.2	315
3	Structure of the Human Telomerase RNA Pseudoknot Reveals Conserved Tertiary Interactions Essential for Function. Molecular Cell, 2005, 17, 671-682.	4.5	285
4	Multistranded DNA structures. Current Opinion in Structural Biology, 1999, 9, 305-314.	2.6	271
5	Triple-strand formation in the homopurine:homopyrimidine DNA oligonucleotides d(G-A)4 and d(T-C)4. Nature, 1989, 339, 637-640.	13.7	263
6	The effect of sodium, potassium and ammonium ions on the conformation of the dimeric quadruplex formed by the Oxytricha nova telomere repeat oligonucleotide d(G4T4G4). Nucleic Acids Research, 1999, 27, 3018-3028.	6.5	213
7	Localization of ammonium ions in the minor groove of DNA duplexes in solution and the origin of DNA A-tract bending 1 1Edited by I. Tinoco. Journal of Molecular Biology, 1999, 286, 651-660.	2.0	205
8	Strand orientation in the DNA quadruplex formed from the Oxytricha telomere repeat oligonucleotide d(G4T4G4) in solution. Biochemistry, 1993, 32, 8682-8692.	1.2	177
9	NMR studies of triple-strand formation from the homopurine-homopyrimidine deoxyribonucleotides d(GA)4 and d(TC)4. Biochemistry, 1989, 28, 7859-7870.	1.2	176
10	Structure and function of telomerase RNA. Current Opinion in Structural Biology, 2006, 16, 307-318.	2.6	175
11	Solution Structures of UBA Domains Reveal a Conserved Hydrophobic Surface for Proteinâ€“Protein Interactions. Journal of Molecular Biology, 2002, 319, 1243-1255.	2.0	171
12	Refined solution structure of the dimeric quadruplex formed from the Oxytricha telomeric oligonucleotide d(GGGGTTTTGGGG). Structure, 1994, 2, 221-233.	1.6	166
13	Mutations linked to dyskeratosis congenita cause changes in the structural equilibrium in telomerase RNA. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 449-454.	3.3	157
14	Binding sites and dynamics of ammonium ions in a telomere repeat DNA quadruplex 1 1Edited by I. Tinoco. Journal of Molecular Biology, 1999, 285, 233-243.	2.0	156
15	Structural basis for recognition of the AGNN tetraloop RNA fold by the double-stranded RNA-binding domain of Rnt1p RNase III. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8307-8312.	3.3	154
16	DNA A-tract bending in three dimensions: Solving the dA4T4 vs. dT4A4 conundrum. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1177-1182.	3.3	140
17	Architecture of human telomerase RNA. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20325-20332.	3.3	134
18	Structure of Tetrahymena telomerase reveals previously unknown subunits, functions, and interactions. Science, 2015, 350, aab4070.	6.0	134

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19	Quantitative Analysis of the Isolated GAAA Tetraloop/Receptor Interaction in Solution:Â A Site-Directed Spin Labeling Studyâ€. Biochemistry, 2001, 40, 6929-6936.	1.2	125
20	Structure of Telomerase with Telomeric DNA. Cell, 2018, 173, 1179-1190.e13.	13.5	124
21	Structure of a human DNA repair protein UBA domain that interacts with HIV-1 Vpr. Nature Structural Biology, 1998, 5, 1042-1047.	9.7	121
22	A DFT Study of the Interresidue Dependencies of ScalarJ-Coupling and Magnetic Shielding in the Hydrogen-Bonding Regions of a DNA Triplex. Journal of the American Chemical Society, 2001, 123, 4014-4022.	6.6	120
23	Monitoring RNA Base Structure and Dynamics Using Site-Directed Spin Labelingâ€. Biochemistry, 2003, 42, 6772-6783.	1.2	118
24	Structural determinants for the binding of ubiquitin-like domains to the proteasome. EMBO Journal, 2003, 22, 4634-4645.	3.5	117
25	Solution structure of the loop B domain from the hairpin ribozyme. Nature Structural Biology, 1999, 6, 212-216.	9.7	113
26	[10]1H NMR spectroscopy of DNA triplexes and quadruplexes. Methods in Enzymology, 1995, 261, 225-255.	0.4	107
27	New applications of 2D filtered/edited NOESY for assignment and structure elucidation of RNA and RNA-protein complexes. Journal of Biomolecular NMR, 2004, 28, 59-67.	1.6	107
28	Sugar conformations in intramolecular DNA triplexes determined by couping constants obtained by automated simulation of P.COSY cross peaks. Journal of the American Chemical Society, 1992, 114, 781-783.	6.6	105
29	The architecture of Tetrahymena telomerase holoenzyme. Nature, 2013, 496, 187-192.	13.7	99
30	Specificity of the Interaction between Ubiquitin-associated Domains and Ubiquitin. Journal of Biological Chemistry, 2004, 279, 11926-11936.	1.6	94
31	Structural Basis for Telomerase RNA Recognition and RNP Assembly by the Holoenzyme La Family Protein p65. Molecular Cell, 2012, 47, 16-26.	4.5	94
32	Ammonium Ion as an NMR Probe for Monovalent Cation Coordination Sites of DNA Quadruplexes. Journal of the American Chemical Society, 1998, 120, 6403-6404.	6.6	93
33	Solution Structure and Dynamics of the Wild-type Pseudoknot of Human Telomerase RNA. Journal of Molecular Biology, 2008, 384, 1249-1261.	2.0	91
34	Characterization of the hydrogen bond network in guanosine quartets by internucleotide 3hJ(NC)' and 2hJ(NN) scalar couplings. Journal of Biomolecular NMR, 2000, 16, 279-289.	1.6	84
35	Structural and Functional Characterization of Human Telomerase RNA Processing and Cajal Body Localization Signals. Molecular Cell, 2007, 27, 869-881.	4.5	84
36	Assignment methodology for larger RNA oligonucleotides: application to an ATP-binding RNA aptamer. Journal of Biomolecular NMR, 1997, 9, 259-272.	1.6	77

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37	Structure and folding of theTetrahymenatelomerase RNA pseudoknot. Nucleic Acids Research, 2017, 45, 482-495.	6.5	75
38	Biochemical and Structural Analysis of the Interaction between the UBA(2) Domain of the DNA Repair Protein HHR23A and HIV-1 Vprâ€. Biochemistry, 2000, 39, 14103-14112.	1.2	74
39	Solution structure of the two N-terminal RNA-binding domains of nucleolin and NMR study of the interaction with its RNA target. Journal of Molecular Biology, 2000, 303, 227-241.	2.0	69
40	Solution structures of unimolecular quadruplexes formed by oligonucleotides containing Oxytricha telomere repeats. Structure, 1995, 3, 997-1008.	1.6	64
41	Structurally conserved five nucleotide bulge determines the overall topology of the core domain of human telomerase RNA. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18761-18768.	3.3	61
42	Solution Structure of the Complex Formed by the Two N-terminal RNA-binding Domains of Nucleolin and a Pre-rRNA Target. Journal of Molecular Biology, 2004, 337, 799-816.	2.0	60
43	Through-bond correlation of imino and aromatic resonances in 13C-,15N-labeled RNA via heteronuclear TOCSY. Journal of Biomolecular NMR, 1996, 7, 83-87.	1.6	59
44	Effect of pseudouridylation on the structure and activity of the catalytically essential P6.1 hairpin in human telomerase RNA. Nucleic Acids Research, 2010, 38, 6746-6756.	6.5	59
45	Recognition of Pre-formed and Flexible Elements of an RNA Stem-Loop by Nucleolin. Journal of Molecular Biology, 2001, 309, 763-775.	2.0	58
46	Pyrimidine motif triple helix in the Kluyveromyces lactis telomerase RNA pseudoknot is essential for function in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10970-10975.	3.3	58
47	Singleâ€Molecule FRET Reveals the Folding Dynamics of the Human Telomerase RNA Pseudoknot Domain. Angewandte Chemie - International Edition, 2012, 51, 5876-5879.	7.2	56
48	Solution Structure of an Intramolecular DNA Triplex Linked by Hexakis(ethylene glycol) Units:Â d(AGAGAGAA-(EG)6-TTCTCTCT-(EG)6-TCTCTCTT)â€,â€¡. Biochemistry, 1998, 37, 5810-5819.	1.2	53
49	Characterization of the Cation and Temperature Dependence of DNA Quadruplex Hydrogen Bond Properties Using High-Resolution NMR. Journal of the American Chemical Society, 2005, 127, 14466-14472.	6.6	53
50	Structure of a Yeast RNase III dsRBD Complex with a Noncanonical RNA Substrate Provides New Insights into Binding Specificity of dsRBDs. Structure, 2011, 19, 999-1010.	1.6	52
51	Structural basis for recognition of human 7SK long noncoding RNA by the La-related protein Larp7. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6457-E6466.	3.3	51
52	Extraction of spectral information from a short-time signal using filter-diagonalization: Recent developments and applications to semiclassical reaction dynamics and nuclear magnetic resonance signals. Journal of Chemical Physics, 1998, 108, 8360-8368.	1.2	49
53	Comparison of Solution and Crystal Structures of PreQ₁ Riboswitch Reveals Calcium-Induced Changes in Conformation and Dynamics. Journal of the American Chemical Society, 2011, 133, 5190-5193.	6.6	49
54	Simple, efficient protocol for enzymatic synthesis of uniformly 13C, 15N-labeled DNA for heteronuclear NMR studies. Nucleic Acids Research, 1998, 26, 2618-2624.	6.5	47

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55	Site-directed Spin Labeling Studies Reveal Solution Conformational Changes in a GAAA Tetraloop Receptor upon Mg2+-dependent Docking of a GAAA Tetraloop. Journal of Molecular Biology, 2005, 351, 1-8.	2.0	47
56	Inhibiting amyloid-Î² cytotoxicity through its interaction with the cell surface receptor LilrB2 by structure-based design. Nature Chemistry, 2018, 10, 1213-1221.	6.6	46
57	Structure and function of preQ1 riboswitches. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 939-950.	0.9	44
58	Structures of telomerase at several steps of telomere repeat synthesis. Nature, 2021, 593, 454-459.	13.7	44
59	Structural Biology of Telomerase. Cold Spring Harbor Perspectives in Biology, 2019, 11, a032383.	2.3	43
60	Structure of active human telomerase with telomere shelterin protein TPP1. Nature, 2022, 604, 578-583.	13.7	43
61	Proton NMR study of the [d(ACGTATACGT)]2-2echinomycin complex: conformational changes between echinomycin binding sites. Nucleic Acids Research, 1992, 20, 2411-2420.	6.5	42
62	Structural study of elements of Tetrahymena telomerase RNA stem-loop IV domain important for function. Rna, 2006, 12, 1475-1485.	1.6	40
63	Progress in Human andTetrahymenaTelomerase Structure Determination. Annual Review of Biophysics, 2017, 46, 199-225.	4.5	39
64	Solution Structure of an Intramolecular Pyrimidineâ^'Purineâ^'Pyrimidine Triplex Containing an RNA Third Strand. Journal of the American Chemical Society, 1998, 120, 4281-4289.	6.6	38
65	Structural basis of 7SK RNA 5â€²-Î³-phosphate methylation and retention by MePCE. Nature Chemical Biology, 2019, 15, 132-140.	3.9	38
66	Structure of the XPC binding domain of hHR23A reveals hydrophobic patches for protein interaction. Protein Science, 2004, 13, 2370-2377.	3.1	36
67	Structure Determination of Proteinâ§RNA Complexes by NMR. Methods in Enzymology, 2005, 394, 525-545.	0.4	36
68	Solution Nuclear Magnetic Resonance Probing of Cation Binding Sites on Nucleic Acids. Methods in Enzymology, 2002, 338, 400-420.	0.4	35
69	Solution Structure of an Intramolecular DNA Triplex Containing 5-(1-Propynyl)-2â€˜-deoxyuridine Residues in the Third Strandâ€‚â€¡. Biochemistry, 1998, 37, 5820-5830.	1.2	34
70	xRRM. RNA Biology, 2013, 10, 353-359.	1.5	34
71	Measurement of small scalar and dipolar couplings in purine and pyrimidine bases. Journal of Biomolecular NMR, 2001, 21, 153-160.	1.6	33
72	Solution structures of stem-loop RNAs that bind to the two N-terminal RNA-binding domains of nucleolin. Nucleic Acids Research, 2003, 31, 6461-6472.	6.5	32

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73	Structure of H/ACA RNP Protein Nhp2p Reveals Cis/Trans Isomerization of a Conserved Proline at the RNA and Nop10 Binding Interface. Journal of Molecular Biology, 2011, 411, 927-942.	2.0	30
74	Chirality errors in nucleic acid structures. Nature, 1997, 387, 668-668.	13.7	29
75	Structure and sequence elements of the CR4/5 domain of medaka telomerase RNA important for telomerase function. Nucleic Acids Research, 2014, 42, 3395-3408.	6.5	29
76	hLARP7 C-terminal domain contains an xRRM that binds the 3â€² hairpin of 7SK RNA. Nucleic Acids Research, 2016, 44, gkw833.	6.5	29
77	Structure of Tetrahymena telomerase-bound CST with polymerase Î±-primase. Nature, 2022, 608, 813-818.	13.7	29
78	Determination of the glycosidic torsion angles in uniformly 13C-labeled nucleic acids from vicinal coupling constants 3J(C2)/4-H1' and 3J(C6)/8-H1'. Journal of Biomolecular NMR, 2002, 23, 1-12.	1.6	27
79	Structure of the Tetrahymena thermophila telomerase RNA helix II template boundary element. Nucleic Acids Research, 2006, 34, 816-825.	6.5	26
80	Structure and Functional Studies of the CS Domain of the Essential H/ACA Ribonucleoparticle Assembly Protein SHQ1. Journal of Biological Chemistry, 2009, 284, 1906-1916.	1.6	26
81	Structural biology of telomerase and its interaction at telomeres. Current Opinion in Structural Biology, 2017, 47, 77-87.	2.6	26
82	Tetrahymena Telomerase Holoenzyme Assembly, Activation, and Inhibition by Domains of the p50 Central Hub. Molecular and Cellular Biology, 2013, 33, 3962-3971.	1.1	25
83	Molecular Mechanism of GTPase Activation at the Signal Recognition Particle (SRP) RNA Distal End. Journal of Biological Chemistry, 2013, 288, 36385-36397.	1.6	25
84	Structural conservation in the template/pseudoknot domain of vertebrate telomerase RNA from teleost fish to human. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5125-34.	3.3	22
85	Shared Subunits of Tetrahymena Telomerase Holoenzyme and Replication Protein A Have Different Functions in Different Cellular Complexes. Journal of Biological Chemistry, 2017, 292, 217-228.	1.6	22
86	Solution Structure of a Parallelâ€Stranded Oligoisoguanine DNA Pentaplex Formed by d(T(iG)₄T) in the Presence of Cs⁺ Ions. Angewandte Chemie - International Edition, 2012, 51, 7952-7955.	7.2	20
87	Structural basis of RNA conformational switching in the transcriptional regulator 7SK RNP. Molecular Cell, 2022, 82, 1724-1736.e7.	4.5	18
88	Progress in structural studies of telomerase. Current Opinion in Structural Biology, 2014, 24, 115-124.	2.6	17
89	A structurally conserved human and Tetrahymena telomerase catalytic core. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31078-31087.	3.3	17
90	Intrinsic Dynamics of an Extended Hydrophobic Core in the S. cerevisiae RNase III dsRBD Contributes to Recognition of Specific RNA Binding Sites. Journal of Molecular Biology, 2013, 425, 546-562.	2.0	14

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91	Biochemical and genomic analysis of substrate recognition by the double-stranded RNA binding domain of yeast RNase III. Rna, 2005, 11, 1225-1237.	1.6	13
92	Structure of S. pombe telomerase protein Pof8 C-terminal domain is an xRRM conserved among LARP7 proteins. RNA Biology, 2021, 18, 1181-1192.	1.5	13
93	Structure and Interactions of the CS Domain of Human H/ACA RNP Assembly Protein Shq1. Journal of Molecular Biology, 2015, 427, 807-823.	2.0	11
94	Integrative structural biology of Tetrahymena telomerase â€“ insights into catalytic mechanism and interaction at telomeres. FEBS Journal, 2016, 283, 2044-2050.	2.2	11
95	A new DNA quadruplex. Current Biology, 1993, 3, 611-613.	1.8	9
96	Contributions of the RNA-Binding and Linker Domains and RNA Structure to the Specificity and Affinity of the Nucleolin RBD12/NRE Interactionâ€. Biochemistry, 2004, 43, 6937-6947.	1.2	9
97	Back to the future of RNA structure. Rna, 2015, 21, 611-612.	1.6	3
98	A Structurally Conserved Human and Tetrahymena Telomerase Catalytic Core. Biophysical Journal, 2021, 120, 138a.	0.2	2
99	Structure and function of human telomerase and H/ACA RNA. FASEB Journal, 2008, 22, 259.2.	0.2	0