Douglas H Turner

List of Publications by Year
in descending order

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156 papers	15,733 citations	27035 58 h-index	20625 120 g-index
201 all docs	201 docs citations	201 times ranked	10185 citing authors

#	Article	IF	Citations
1	Expanded sequence dependence of thermodynamic parameters improves prediction of RNA secondary structure. Journal of Molecular Biology, 1999, 288, 911-940.	2.0	3,486
2	Incorporating chemical modification constraints into a dynamic programming algorithm for prediction of RNA secondary structure. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7287-7292.	3.3	1,332
3	Thermodynamic Parameters for an Expanded Nearest-Neighbor Model for Formation of RNA Duplexes with WatsonâCrick Base Pairsâ€. Biochemistry, 1998, 37, 14719-14735.	1.2	1,055
4	NNDB: the nearest neighbor parameter database for predicting stability of nucleic acid secondary structure. Nucleic Acids Research, 2010, 38, D280-D282.	6.5	444
5	Dynalign: an algorithm for finding the secondary structure common to two RNA sequences. Journal of Molecular Biology, 2002, 317, 191-203.	2.0	340
6	Prediction of RNA secondary structure by free energy minimization. Current Opinion in Structural Biology, 2006, 16, 270-278.	2.6	339
7	Investigation of the Structural Basis for Thermodynamic Stabilities of Tandem GU Mismatches:Â Solution Structure of (rGAGGUCUC)2by Two-Dimensional NMR and Simulated Annealingâ€,â€¡. Biochemistry, 1996, 35, 14077-14089.	1.2	333
8	Microarrays for identifying binding sites and probing structure of RNAs. Nucleic Acids Research, 2015, 43, 1-12.	6.5	250
9	Predicting oligonucleotide affinity to nucleic acid targets. Rna, 1999, 5, 1458-1469.	1.6	228
10	Expanded CUG repeat RNAs form hairpins that activate the double-stranded RNA-dependent protein kinase PKR. Rna, 2000, 6, 79-87.	1.6	225
11	The contribution of pseudouridine to stabilities and structure of RNAs. Nucleic Acids Research, 2014, 42, 3492-3501.	6.5	177
12	Laser temperature-jump, spectroscopic, and thermodynamic study of salt effects on duplex formation by dGCATGC. Biochemistry, 1989, 28, 4283-4291.	1.2	176
13	Structure of (rGGCGAGCC)2 in solution from NMR and restrained molecular dynamics. Biochemistry, 1993, 32, 12612-12623.	1.2	175
14	Thermodynamics of Single Mismatches in RNA Duplexesâ€. Biochemistry, 1999, 38, 14214-14223.	1.2	166
15	Stabilities of consecutive A.cntdot.C, C.cntdot.C, G.cntdot.G, U.cntdot.C, and U.cntdot.U mismatches in RNA internal loops: evidence for stable hydrogen-bonded U.cntdot.U and C.cntdot.C+ pairs. Biochemistry, 1991, 30, 8242-8251.	1.2	164
16	Thermodynamic and spectroscopic study of bulge loops in oligoribonucleotides. Biochemistry, 1990, 29, 278-285.	1.2	161
17	Free energy increments for hydrogen bonds in nucleic acid base pairs. Journal of the American Chemical Society, 1987, 109, 3783-3785.	6.6	158
18	Reparameterization of RNA Ï‡ Torsion Parameters for the AMBER Force Field and Comparison to NMR Spectra for Cytidine and Uridine. Journal of Chemical Theory and Computation, 2010, 6, 1520-1531.	2.3	155

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19	Polymer-supported RNA synthesis and its application to test the nearest-neighbor model for duplex stability. Biochemistry, 1986, 25, 7840-7846.	1.2	148
20	A Periodic Table of Tandem Mismatches in RNA. Biochemistry, 1995, 34, 3204-3211.	1.2	140
21	Folding and Finding RNA Secondary Structure. Cold Spring Harbor Perspectives in Biology, 2010, 2, a003665-a003665.	2.3	136
22	Stability of XGCGCp, GCGCYp, and XGCGCYp helixes: an empirical estimate of the energetics of hydrogen bonds in nucleic acids. Biochemistry, 1986, 25, 3214-3219.	1.2	134
23	Effects of 3' dangling end stacking on the stability of GGCC and CCGG double helixes. Biochemistry, 1983, 22, 6198-6206.	1.2	131
24	Comparison of binding of mixed ribose-deoxyribose analogs of CUCU to a ribozyme and to GGAGAA by equilibrium dialysis: evidence for ribozyme specific interactions with 2'-hydroxy groups. Biochemistry, 1991, 30, 10632-10640.	1.2	129
25	Contributions of dangling end stacking and terminal base-pair formation to the stabilities of XGGCCp, XCCGGp, XGGCCYp, and XCCGGYp helixes. Biochemistry, 1985, 24, 4533-4539.	1.2	128
26	Nearest-neighbor parameters for G.cntdot.U mismatches: 5'GU3'/3'UG5' is destabilizing in the contexts CGUG/GUGC, UGUA/AUGU, and AGUU/UUGA but stabilizing in GGUC/CUGG. Biochemistry, 1991, 30, 11124-11132.	1.2	128
27	Thermodynamics of RNAâˆ'RNA Duplexes with 2- or 4-Thiouridines:Â Implications for Antisense Design and Targeting a Group I Intronâ€. Biochemistry, 1999, 38, 16655-16662.	1.2	118
28	Effects of GA mismatches on the structure and thermodynamics of RNA internal loops. Biochemistry, 1990, 29, 8813-8819.	1.2	117
29	Solution Structure of (rGCGGACGC)2 by Two-Dimensional NMR and the Iterative Relaxation Matrix Approach. Biochemistry, 1996, 35, 9677-9689.	1.2	108
30	The influence of locked nucleic acid residues on the thermodynamic properties of 2'-O-methyl RNA/RNA heteroduplexes. Nucleic Acids Research, 2005, 33, 5082-5093.	6.5	104
31	Laser temperature-jump study of stacking in adenylic acid polymers. Biochemistry, 1979, 18, 5757-5762.	1.2	102
32	Measuring the thermodynamics of RNA secondary structure formation. , 1997, 44, 309-319.		100
33	Stacking in RNA: NMR of Four Tetramers Benchmark Molecular Dynamics. Journal of Chemical Theory and Computation, 2015, 11, 2729-2742.	2.3	99
34	Conformational ensembles of RNA oligonucleotides from integrating NMR and molecular simulations. Science Advances, 2018, 4, eaar8521.	4.7	99
35	Thermodynamic study of internal loops in oligoribonucleotides: symmetric loops are more stable than asymmetric loops. Biochemistry, 1991, 30, 6428-6436.	1.2	98
36	Benchmarking AMBER Force Fields for RNA: Comparisons to NMR Spectra for Single-Stranded r(GACC) Are Improved by Revised Ï‡ Torsions. Journal of Physical Chemistry B, 2011, 115, 9261-9270.	1.2	95

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37	Solvent effects on the dynamics of (dG-dC)3. Biopolymers, 1983, 22, 1107-1131.	1.2	92
38	Sequence dependence of stability for coaxial stacking of RNA helixes with Watson-Crick base paired interfaces. Biochemistry, 1994, 33, 12715-12719.	1.2	89
39	Thermodynamics of Three-Way Multibranch Loops in RNAâ€. Biochemistry, 2001, 40, 6971-6981.	1.2	88
40	The Stability and Structure of Tandem GA Mismatches in RNA Depend on Closing Base Pairs. Biochemistry, 1994, 33, 11349-11354.	1.2	87
41	Optical Melting Measurements of Nucleic Acid Thermodynamics. Methods in Enzymology, 2009, 468, 371-387.	0.4	86
42	Identification of potential conserved RNA secondary structure throughout influenza A coding regions. Rna, 2011, 17, 991-1011.	1.6	85
43	Thermodynamics of Nonsymmetric Tandem Mismatches Adjacent to GÂ·C Base Pairs in RNAâ€. Biochemistry, 1997, 36, 12486-12497.	1.2	84
44	Solution Structure of (rGGCAGGCC)2by Two-Dimensional NMR and the Iterative Relaxation Matrix Approachâ€,â€¡. Biochemistry, 1997, 36, 4449-4460.	1.2	82
45	Testing the Nearest Neighbor Model for Canonical RNA Base Pairs: Revision of GU Parameters. Biochemistry, 2012, 51, 3508-3522.	1.2	80
46	Thermodynamics of unpaired terminal nucleotides on short RNA helixes correlates with stacking at helix termini in larger RNAs. Journal of Molecular Biology, 1999, 290, 967-982.	2.0	79
47	The Nuclear Magnetic Resonance of CCCC RNA Reveals a Right-Handed Helix, and Revised Parameters for AMBER Force Field Torsions Improve Structural Predictions from Molecular Dynamics. Biochemistry, 2013, 52, 996-1010.	1.2	78
48	Solvent effects on the kinetics and thermodynamics of stacking in poly(cytidylic acid). Biochemistry, 1981, 20, 1419-1426.	1.2	77
49	A model for the stabilities of RNA hairpins based on a study of the sequence dependence of stability for hairpins of six nucleotides. Biochemistry, 1994, 33, 14289-14296.	1.2	76
50	Effects of substrate structure on the kinetics of circle opening reactions of the self-splicing intervening sequence fromTetrahymena thermophila: evidence for substrate and Mg2+binding Interactions. Nucleic Acids Research, 1989, 17, 355-371.	6.5	74
51	Factors Affecting the Thermodynamic Stability of Small Asymmetric Internal Loops in RNAâ€. Biochemistry, 2000, 39, 9257-9274.	1.2	73
52	Experimentally Derived Nearest-Neighbor Parameters for the Stability of RNA Three- and Four-Way Multibranch Loopsâ€. Biochemistry, 2002, 41, 869-880.	1.2	73
53	Structure determination of noncanonical RNA motifs guided by 1H NMR chemical shifts. Nature Methods, 2014, 11, 413-416.	9.0	72
54	Long-Range Cooperativity in Molecular Recognition of RNA by Oligodeoxynucleotides with Multiple C5-(1-Propynyl) Pyrimidines. Journal of the American Chemical Society, 2001, 123, 4107-4118.	6.6	69

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55	Replacement of the Conserved G.cntdot.U with a G-C Pair at the Cleavage Site of the Tetrahymena Ribozyme Decreases Binding, Reactivity, and Fidelity. Biochemistry, 1994, 33, 13856-13863.	1.2	66
56	Structural Features of a Six-Nucleotide RNA Hairpin Loop Found in Ribosomal RNAâ€. Biochemistry, 1996, 35, 6539-6548.	1.2	66
57	Revision of AMBER Torsional Parameters for RNA Improves Free Energy Predictions for Tetramer Duplexes with GC and iGiC Base Pairs. Journal of Chemical Theory and Computation, 2012, 8, 172-181.	2.3	65
58	NMR Structures of r(GCAGGCGUGC)2and Determinants of Stability for Single Guanosineâˆ'Guanosine Base Pairsâ€,â€¡. Biochemistry, 2000, 39, 11748-11762.	1.2	61
59	Oligonucleotide directed misfolding of RNA inhibits Candida albicans group I intron splicing. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11091-11096.	3.3	59
60	Nuclear Magnetic Resonance Spectroscopy and Molecular Modeling Reveal That Different Hydrogen Bonding Patterns Are Possible for GÂ·U Pairs:Â One Hydrogen Bond for Each GÂ·U Pair in r(GGCGUGCC)2and Two for Each GÂ·U Pair in r(GAGUGCUC)2â€,â€¡. Biochemistry, 2000, 39, 8970-8982.	1.2	56
61	Melting and chemical modification of a cyclized self-splicing group I intron: similarity of structures in 1 M sodium, in 10 mM magnesium and in the presence of substrate. Biochemistry, 1990, 29, 10147-10158.	1.2	55
62	The time dependence of chemical modification reveals slow steps in the folding of a group I ribozyme. Biochemistry, 1995, 34, 6504-6512.	1.2	55
63	Investigation of the Structural Basis for Thermodynamic Stabilities of Tandem GU Wobble Pairs:Â NMR Structures of (rGGAGUUCC)2and (rGGAUGUCC)2â€,â€¡. Biochemistry, 1997, 36, 8030-8038.	1.2	55
64	Thermodynamic Studies of RNA Stability. Journal of Biomolecular Structure and Dynamics, 1984, 1, 1229-1242.	2.0	52
65	Thermodynamics of Coaxially Stacked Helixes with GA and CC Mismatches. Biochemistry, 1996, 35, 13753-13761.	1.2	52
66	The Determination of RNA Folding Nearest Neighbor Parameters. Methods in Molecular Biology, 2014, 1097, 45-70.	0.4	52
67	In vivo analysis of influenza A mRNA secondary structures identifies critical regulatory motifs. Nucleic Acids Research, 2019, 47, 7003-7017.	6.5	51
68	RNA Challenges for Computational Chemistsâ€. Biochemistry, 2005, 44, 13225-13234.	1.2	47
69	Sequence dependence for the energetics of terminal mismatches in ribooligonucleotides. Biochemistry, 1987, 26, 4559-4562.	1.2	46
70	Stability and Structure of RNA Duplexes Containing Isoguanosine and Isocytidine. Journal of the American Chemical Society, 2001, 123, 1267-1274.	6.6	46
71	An RNA Molecular Switch: Intrinsic Flexibility of 23S rRNA Helices 40 and 68 5â€²-UAA/5â€²-GAN Internal Loops Studied by Molecular Dynamics Methods. Journal of Chemical Theory and Computation, 2010, 6, 910-929.	2.3	46
72	NMR-Assisted Prediction of RNA Secondary Structure: Identification of a Probable Pseudoknot in the Coding Region of an R2 Retrotransposon. Journal of the American Chemical Society, 2008, 130, 10233-10239.	6.6	45

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73	Contributions of Stacking, Preorganization, and Hydrogen Bonding to the Thermodynamic Stability of Duplexes between RNA and 2â€²-<i>O</i>-Methyl RNA with Locked Nucleic Acids. Biochemistry, 2009, 48, 4377-4387.	1.2	43
74	Facilitating RNA Structure Prediction with Microarraysâ€. Biochemistry, 2006, 45, 581-593.	1.2	42
75	APneumocystis cariniiGroup I Intron Ribozyme That Does Not Require 2â€˜ OH Groups on Its 5â€˜ Exon Mimic for Binding to the Catalytic Coreâ€. Biochemistry, 1997, 36, 15303-15314.	1.2	41
76	Thermodynamic Stabilities of Internal Loops with GU Closing Pairs in RNAâ€. Biochemistry, 2001, 40, 11509-11517.	1.2	41
77	Effects of Restrained Sampling Space and Nonplanar Amino Groups on Free-Energy Predictions for RNA with Imino and Sheared Tandem GA Base Pairs Flanked by GC, CG, iGiC or iCiG Base Pairs. Journal of Chemical Theory and Computation, 2009, 5, 2088-2100.	2.3	39
78	The 3â€² Splice Site of Influenza A Segment 7 mRNA Can Exist in Two Conformations: A Pseudoknot and a Hairpin. PLoS ONE, 2012, 7, e38323.	1.1	39
79	Isoenergetic penta- and hexanucleotide microarray probing and chemical mapping provide a secondary structure model for an RNA element orchestrating R2 retrotransposon protein function. Nucleic Acids Research, 2008, 36, 1770-1782.	6.5	37
80	Solution Structure of an RNA Internal Loop with Three Consecutive Sheared GA Pairsâ€,â€¡. Biochemistry, 2005, 44, 2845-2856.	1.2	36
81	Nearest neighbor parameters for Watson-Crick complementary heteroduplexes formed between 2'-O-methyl RNA and RNA oligonucleotides. Nucleic Acids Research, 2006, 34, 3609-3614.	6.5	36
82	GÂ·A and UÂ·U Mismatches Can Stabilize RNA Internal Loops of Three Nucleotidesâ€. Biochemistry, 1996, 35, 16105-16109.	1.2	35
83	Secondary Structures for 5â€² Regions of R2 Retrotransposon RNAs Reveal a Novel Conserved Pseudoknot and Regions that Evolve under Different Constraints. Journal of Molecular Biology, 2009, 390, 428-442.	2.0	35
84	A chemical synthesis of LNA-2,6-diaminopurine riboside, and the influence of 2â€²-O-methyl-2,6-diaminopurine and LNA-2,6-diaminopurine ribosides on the thermodynamic properties of 2â€²-O-methyl RNA/RNA heteroduplexes. Nucleic Acids Research, 2007, 35, 4055-4063.	6.5	34
85	Antisense Oligonucleotides Targeting Influenza A Segment 8 Genomic RNA Inhibit Viral Replication. Nucleic Acid Therapeutics, 2016, 26, 277-285.	2.0	34
86	A Mechanistic Framework for the Second Step of Splicing Catalyzed by theTetrahymenaRibozymeâ€. Biochemistry, 1996, 35, 648-658.	1.2	33
87	Factors Affecting Thermodynamic Stabilities of RNA 3 Ã— 3 Internal Loops. Biochemistry, 2004, 43, 12865-12876.	1.2	33
88	NMR Structures of (rGCUGAGGCU)2and (rGCGGAUGCU)2:Â Probing the Structural Features That Shape the Thermodynamic Stability of GA Pairsâ€,â€¡. Biochemistry, 2007, 46, 1511-1522.	1.2	33
89	Optimization of an AMBER Force Field for the Artificial Nucleic Acid, LNA, and Benchmarking with NMR of L(CAAU). Journal of Physical Chemistry B, 2014, 118, 1216-1228.	1.2	32
90	Physicsâ€based allâ€atom modeling of <scp>RNA</scp> energetics and structure. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1422.	3.2	32

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91	The energetics of small internal loops in RNA. Biopolymers, 1999, 52, 157-167.	1.2	31
92	Uptake and antifungal activity of oligonucleotides in Candida albicans. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1530-1534.	3.3	31
93	RNA Internal Loops with Tandem AG Pairs: The Structure of the 5â€²G<u>AG</u>U/3â€²U<u>GA</u>G Loop Can Be Dramatically Different from Others, Including 5â€²A<u>AG</u>U/3â€²U<u>GA</u>A. Biochemistry, 2010, 49, 5817-5827.	1.2	31
94	Self-Folding of Naked Segment 8 Genomic RNA of Influenza A Virus. PLoS ONE, 2016, 11, e0148281.	1.1	31
95	Influenza A Virus Coding Regions Exhibit Host-Specific Global Ordered RNA Structure. PLoS ONE, 2012, 7, e35989.	1.1	30
96	RNA pseudoknots: folding and finding. F1000 Biology Reports, 2010, 2, 8.	4.0	30
97	The NMR Structure of an Internal Loop from 23S Ribosomal RNA Differs from Its Structure in Crystals of 50S Ribosomal Subunitsâ€,â€¡. Biochemistry, 2006, 45, 11776-11789.	1.2	28
98	An Alternating Sheared AA Pair and Elements of Stability for a Single Sheared Purine-Purine Pair Flanked by Sheared GA Pairs in RNA,. Biochemistry, 2006, 45, 6889-6903.	1.2	27
99	Consecutive GA Pairs Stabilize Medium-Size RNA Internal Loopsâ€. Biochemistry, 2006, 45, 4025-4043.	1.2	27
100	Proton magnetic resonance melting studies of CCGGp, CCGGAp, ACCGGp, CCGGUp, and ACCGGUp. Biochemistry, 1983, 22, 269-277.	1.2	26
101	A CA⁺ Pair Adjacent to a Sheared GA or AA Pair Stabilizes Size-Symmetric RNA Internal Loops. Biochemistry, 2009, 48, 5738-5752.	1.2	26
102	Secondary Structure of a Conserved Domain in the Intron of Influenza A NS1 mRNA. PLoS ONE, 2013, 8, e70615.	1.1	26
103	Predicting the Kinetics of RNA Oligonucleotides Using Markov State Models. Journal of Chemical Theory and Computation, 2017, 13, 926-934.	2.3	26
104	Mutations Designed by Ensemble Defect to Misfold Conserved RNA Structures of Influenza A Segments 7 and 8 Affect Splicing and Attenuate Viral Replication in Cell Culture. PLoS ONE, 2016, 11, e0156906.	1.1	26
105	The Thermodynamics of 3â€˜-Terminal Pyrene and Guanosine for the Design of Isoenergetic 2â€˜-O-Methyl-RNA-LNA Chimeric Oligonucleotide Probes of RNA Structure. Biochemistry, 2008, 47, 1249-1258.	1.2	25
106	The influenza A segment 7 mRNA 3â€² splice site pseudoknot/hairpin family. RNA Biology, 2012, 9, 1305-1310.	1.5	25
107	Binding Enhancement by Tertiary Interactions and Suicide Inhibition of aCandida albicansGroup I Intron by Phosphoramidate and 2â€˜-O-Methyl Hexanucleotidesâ€. Biochemistry, 2001, 40, 6520-6526.	1.2	24
108	NMR structure of a 4 Ã— 4 nucleotide RNA internal loop from an R2 retrotransposon: Identification of a three purineâ€“purine sheared pair motif and comparison to MC-SYM predictions. Rna, 2011, 17, 1664-1677.	1.6	24

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109	Understanding the role of base stacking in nucleic acids. MD and QM analysis of tandem GA base pairs in RNA duplexes. Physical Chemistry Chemical Physics, 2012, 14, 12580.	1.3	24
110	Secondary Structure of a Conserved Domain in an Intron of Influenza A M1 mRNA. Biochemistry, 2014, 53, 5236-5248.	1.2	24
111	Crystal structure of a poly(rA) staggered zipper at acidic pH: evidence that adenine N1 protonation mediates parallel double helix formation. Nucleic Acids Research, 2016, 44, 8417-8424.	6.5	24
112	Antisense Binding Enhanced by Tertiary Interactions:â€‰ Binding of Phosphorothioate and N3â€˜â†’P5â€˜ Phosphoramidate Hexanucleotides to the Catalytic Core of a Group I Ribozyme from the Mammalian Pathogen Pneumocystis carinii. Biochemistry, 1998, 37, 9379-9385.	1.2	23
113	C5-(1-Propynyl)-2â€˜-deoxy-Pyrimidines Enhance Mismatch Penalties of DNA:RNA Duplex Formationâ€. Biochemistry, 2001, 40, 12738-12745.	1.2	23
114	Recognition Elements for 5â€˜ Exon Substrate Binding to theCandida albicansGroup I Intronâ€. Biochemistry, 2001, 40, 6507-6519.	1.2	23
115	Thermodynamics of RNA Internal Loops with a Guanosine-Guanosine Pair Adjacent to Another Noncanonical Pair. Biochemistry, 2001, 40, 2478-2483.	1.2	23
116	Secondary structure models of the 3' untranslated regions of diverse R2 RNAs. Rna, 2004, 10, 978-987.	1.6	23
117	Targeting aPneumocystis cariniiGroup I Intron with Methylphosphonate Oligonucleotides:Â Backbone Charge Is Not Required for Binding or Reactivityâ€. Biochemistry, 2000, 39, 6991-7000.	1.2	22
118	Structural Features and Thermodynamics of the J4/5 Loop from theCandida albicansandCandida dubliniensisGroup I Intronsâ€,â€¡. Biochemistry, 2004, 43, 15822-15837.	1.2	22
119	Improving RNA nearest neighbor parameters for helices by going beyond the two-state model. Nucleic Acids Research, 2018, 46, 4883-4892.	6.5	22
120	Nuclear Magnetic Resonance of Single-Stranded RNAs and DNAs of CAAU and UCAAUC as Benchmarks for Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2020, 16, 1968-1984.	2.3	22
121	An Updated Recursive Algorithm for RNA Secondary Structure Prediction with Improved Thermodynamic Parameters. ACS Symposium Series, 1997, , 246-257.	0.5	21
122	NMR Reveals the Absence of Hydrogen Bonding in Adjacent UU and AG Mismatches in an Isolated Internal Loop from Ribosomal RNA[,]. Biochemistry, 2007, 46, 12665-12678.	1.2	21
123	Chemical Synthesis of LNA-2-thiouridine and Its Influence on Stability and Selectivity of Oligonucleotide Binding to RNA. Biochemistry, 2009, 48, 10882-10893.	1.2	21
124	Biophysical Analysis of Influenza A Virus RNA Promoter at Physiological Temperatures. Journal of Biological Chemistry, 2011, 286, 22965-22970.	1.6	19
125	Inhibition of Escherichia coli RNase P by oligonucleotide directed misfolding of RNA. Rna, 2003, 9, 1437-1445.	1.6	18
126	New approaches to targeting RNA with oligonucleotides: Inhibition of group I intron self-splicing. Biopolymers, 2004, 73, 151-161.	1.2	18

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127	Stacking Effects on Local Structure in RNA:Â Changes in the Structure of Tandem GA Pairs when Flanking GC Pairs Are Replaced by isoGâˆ'isoC Pairsâ€. Journal of Physical Chemistry B, 2007, 111, 6718-6727.	1.2	17
128	Activity of Hoechst 33258 against Pneumocystis carinii f. sp. muris , Candida albicans , and Candida dubliniensis. Antimicrobial Agents and Chemotherapy, 2005, 49, 1326-1330.	1.4	16
129	Novel Conformation of an RNA Structural Switch. Biochemistry, 2012, 51, 9257-9259.	1.2	16
130	Fluorescence Competition Assay Measurements of Free Energy Changes for RNA Pseudoknots. Biochemistry, 2010, 49, 623-634.	1.2	15
131	Structural Features of a 3â€² Splice Site in Influenza A. Biochemistry, 2015, 54, 3269-3285.	1.2	15
132	Accurate geometrical restraints for Watsonâ€“Crick base pairs. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 235-245.	0.5	14
133	Effects of Mg2+ and the 2â€˜ OH of Guanosine on Steps Required for Substrate Binding and Reactivity with the Tetrahymena Ribozyme Reveal Several Local Folding Transitions. Biochemistry, 1997, 36, 11131-11139.	1.2	13
134	Fundamental interactions in RNA: Questions answered and remaining. Biopolymers, 2013, 99, n/a-n/a.	1.2	13
135	Identification of conserved RNA secondary structures at influenza B and C splice sites reveals similarities and differences between influenza A, B, and C. BMC Research Notes, 2014, 7, 22.	0.6	13
136	Nuclear Magnetic Resonance-Assisted Prediction of Secondary Structure for RNA: Incorporation of Direction-Dependent Chemical Shift Constraints. Biochemistry, 2015, 54, 6769-6782.	1.2	13
137	Long-Range Cooperativity Due to C5-Propynylation of Oligopyrimidines Enhances Specific Recognition by Uridine of ribo-Adenosine over ribo-Guanosine. Journal of the American Chemical Society, 2001, 123, 9186-9187.	6.6	12
138	Nearest neighbor rules for RNA helix folding thermodynamics: improved end effects. Nucleic Acids Research, 2022, 50, 5251-5262.	6.5	12
139	Nuclear Magnetic Resonance Spectra and AMBER OL3 and ROC-RNA Simulations of UCUCGU Reveal Force Field Strengths and Weaknesses for Single-Stranded RNA. Journal of Chemical Theory and Computation, 2022, 18, 1241-1254.	2.3	11
140	Molecular Recognition in Purine-Rich Internal Loops:Â Thermodynamic, Structural, and Dynamic Consequences of Purine for Adenine Substitutions in 5â€˜(rGGCAAGCCU)2â€,â€¡. Biochemistry, 2002, 41, 14978-14987.	1.2	10
141	Comparisons between Chemical Mapping and Binding to Isoenergetic Oligonucleotide Microarrays Reveal Unexpected Patterns of Binding to the <i>Bacillus subtilis</i> RNase P RNA Specificity Domain. Biochemistry, 2010, 49, 8155-8168.	1.2	10
142	The Influenza A PB1-F2 and N40 Start Codons Are Contained within an RNA Pseudoknot. Biochemistry, 2015, 54, 3413-3415.	1.2	10
143	Nuclear Magnetic Resonance Reveals That GU Base Pairs Flanking Internal Loops Can Adopt Diverse Structures. Biochemistry, 2019, 58, 1094-1108.	1.2	10
144	Contributions of Individual Nucleotides to Tertiary Binding of Substrate by aPneumocystis cariniiGroup I Intronâ€. Biochemistry, 2000, 39, 14269-14278.	1.2	9

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145	Molecular Recognition by theCandida albicansGroup I Intron:Â Tertiary Interactions with an Imino GÂ·A Pair Facilitate Binding of the 5â€˜ Exon and Lower theKMfor Guanosineâ€. Biochemistry, 2002, 41, 8113-8119.	1.2	9
146	The R2 retrotransposon RNA families. RNA Biology, 2011, 8, 714-718.	1.5	9
147	Molecular dynamics correctly models the unusual major conformation of the GAGU RNA internal loop and with NMR reveals an unusual minor conformation. Rna, 2018, 24, 656-672.	1.6	9
148	Hoechst 33258 Selectively Inhibits Group I Intron Self-Splicing by Affecting RNA Folding. ChemBioChem, 2004, 5, 1647-1652.	1.3	8
149	Influenza B virus has global ordered RNA structure in (+) and (âˆ') strands but relatively less stable predicted RNA folding free energy than allowed by the encoded protein sequence. BMC Research Notes, 2013, 6, 330.	0.6	7
150	The Chemical Synthesis of Oligoribonucleotides with Selectively Placed 2â€²-O-Phosphates. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 917-933.	0.4	5
151	RNA Secondary Structure Determination by NMR. Methods in Molecular Biology, 2016, 1490, 177-186.	0.4	4
152	Nuclear Magnetic Resonance Structure of an 8 Ã— 8 Nucleotide RNA Internal Loop Flanked on Each Side by Three Watsonâ€"Crick Pairs and Comparison to Three-Dimensional Predictions. Biochemistry, 2017, 56, 3733-3744.	1.2	4
153	Surprising Sequence Effects on GU Closure of Symmetric 2 Ã— 2 Nucleotide RNA Internal Loops. Biochemistry, 2018, 57, 2121-2131.	1.2	4
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