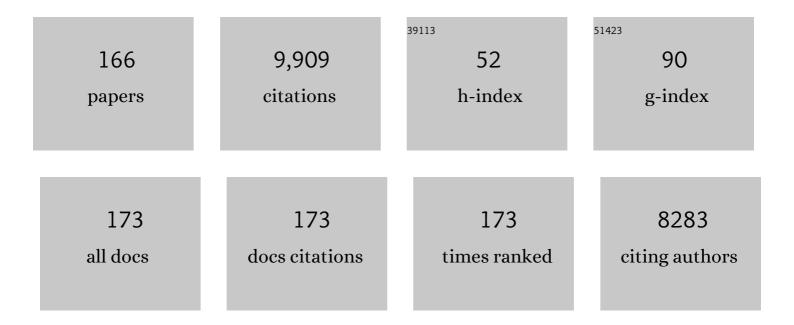
## Philip C Bevilacqua

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	RNA multimerization as an organizing force for liquid–liquid phase separation. Rna, 2022, 28, 16-26.	1.6	27
2	Experimental demonstration and pan-structurome prediction of climate-associated riboSNitches in Arabidopsis. Genome Biology, 2022, 23, 101.	3.8	10
3	Genome-wide analysis of the <i>inÂvivo</i> tRNA structurome reveals RNA structural and modification dynamics under heat stress. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	20
4	Phase-specific RNA accumulation and duplex thermodynamics in multiphase coacervate models for membraneless organelles. Nature Chemistry, 2022, 14, 1110-1117.	6.6	35
5	Biological solution conditions and flanking sequence modulate LLPS of RNA G-quadruplex structures. Rna, 2022, 28, 1197-1209.	1.6	7
6	Amino Acid Specific Nonenzymatic Montmorilloniteâ€₽romoted RNA Polymerization. ChemSystemsChem, 2021, 3, e2000060.	1.1	5
7	Measuring the activity and structure of functional RNAs inside compartments formed by liquid-liquid phase separation. Methods in Enzymology, 2021, 646, 307-327.	0.4	5
8	Functional Roles of Chelated Magnesium Ions in RNA Folding and Function. Biochemistry, 2021, 60, 2374-2386.	1.2	22
9	Long Tracts of Guanines Drive Aggregation of RNA G-Quadruplexes in the Presence of Spermine. Biochemistry, 2021, 60, 2715-2726.	1.2	8
10	Investigation of the pKa of the Nucleophilic O2′ of the Hairpin Ribozyme. Journal of Physical Chemistry B, 2021, 125, 11869-11883.	1.2	2
11	Inverse RNA Folding Workflow to Design and Test Ribozymes that Include Pseudoknots. Methods in Molecular Biology, 2021, 2167, 113-143.	0.4	2
12	RNA sequence and structure control assembly and function of RNA condensates. Rna, 2021, 27, 1589-1601.	1.6	13
13	Prebiotically-relevant low polyion multivalency can improve functionality of membraneless compartments. Nature Communications, 2020, 11, 5949.	5.8	75
14	CsrA-Mediated Translational Activation of <i>ymdA</i> Expression in Escherichia coli. MBio, 2020, 11, .	1.8	20
15	Structure-seq2 probing of RNA structure upon amino acid starvation reveals both known and novel RNA switches in <i>Bacillus subtilis</i> . Rna, 2020, 26, 1431-1447.	1.6	15
16	Tissue-specific changes in the RNA structurome mediate salinity response in <i>Arabidopsis</i> . Rna, 2020, 26, 492-511.	1.6	25
17	Design of highly active double-pseudoknotted ribozymes: a combined computational and experimental study. Nucleic Acids Research, 2019, 47, 29-42.	6.5	12
18	Single-nucleotide control of tRNA folding cooperativity under near-cellular conditions. Proceedings of the United States of America, 2019, 116, 23075-23082	3.3	12

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19	Cellular Concentrations of Nucleotide Diphosphate-Chelated Magnesium Ions Accelerate Catalysis by RNA and DNA Enzymes. Biochemistry, 2019, 58, 3971-3979.	1.2	14
20	Probing RNA structure in vivo. Current Opinion in Structural Biology, 2019, 59, 151-158.	2.6	66
21	Template-directed RNA polymerization and enhanced ribozyme catalysis inside membraneless compartments formed by coacervates. Nature Communications, 2019, 10, 490.	5.8	195
22	Polyanion-Assisted Ribozyme Catalysis Inside Complex Coacervates. ACS Chemical Biology, 2019, 14, 1243-1248.	1.6	57
23	An Ontology for Facilitating Discussion of Catalytic Strategies of RNA-Cleaving Enzymes. ACS Chemical Biology, 2019, 14, 1068-1076.	1.6	45
24	In Vivo Genome-Wide RNA Structure Probing with Structure-seq. Methods in Molecular Biology, 2019, 1933, 305-341.	0.4	10
25	Small Molecule Rescue and Glycosidic Conformational Analysis of the Twister Ribozyme. Biochemistry, 2019, 58, 4857-4868.	1.2	4
26	mRNA structural elements immediately upstream of the start codon dictate dependence upon eIF4A helicase activity. Genome Biology, 2019, 20, 300.	3.8	38
27	In vivo RNA structural probing of uracil and guanine base-pairing by 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC). Rna, 2019, 25, 147-157.	1.6	37
28	StructureFold2: Bringing chemical probing data into the computational fold of RNA structural analysis. Methods, 2018, 143, 12-15.	1.9	26
29	A LASER-focused view into cells. Nature Chemical Biology, 2018, 14, 200-201.	3.9	2
30	Complexity in pH-Dependent Ribozyme Kinetics: Dark p <i>K</i> <sub>a</sub> Shifts and Wavy Rate–pH Profiles. Biochemistry, 2018, 57, 483-488.	1.2	24
31	Modeling RNA secondary structure folding ensembles using SHAPE mapping data. Nucleic Acids Research, 2018, 46, 314-323.	6.5	72
32	Physical Principles and Extant Biology Reveal Roles for RNA-Containing Membraneless Compartments in Origins of Life Chemistry. Biochemistry, 2018, 57, 2509-2519.	1.2	122
33	Glyoxals as in vivo RNA structural probes of guanine base-pairing. Rna, 2018, 24, 114-124.	1.6	38
34	Elucidation of Catalytic Strategies of Small Nucleolytic Ribozymes from Comparative Analysis of Active Sites. ACS Catalysis, 2018, 8, 314-327.	5.5	34
35	Genome-wide RNA structurome reprogramming by acute heat shock globally regulates mRNA abundance. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12170-12175.	3.3	83
36	Technique Development for Probing RNA Structure In Vivo and Genome-Wide. Cold Spring Harbor Perspectives in Biology, 2018, 10, a032250.	2.3	32

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37	Molecular Mechanism for Folding Cooperativity of Functional RNAs in Living Organisms. Biochemistry, 2018, 57, 2994-3002.	1.2	8
38	Cellular Small Molecules Contribute to Twister Ribozyme Catalysis. Journal of the American Chemical Society, 2018, 140, 10578-10582.	6.6	13
39	Cellular conditions of weakly chelated magnesium ions strongly promote RNA stability and catalysis. Nature Communications, 2018, 9, 2149.	5.8	50
40	KEY CATALYTIC STRATEGIES OF RIBOZYMES. , 2018, , .		0
41	The GlcN6P cofactor plays multiple catalytic roles in the glmS ribozyme. Nature Chemical Biology, 2017, 13, 439-445.	3.9	44
42	Cooperative Interactions in the Hammerhead Ribozyme Drive p <i>K</i> <sub>a</sub> Shifting of G12 and Its Stacked Base C17. Biochemistry, 2017, 56, 2537-2548.	1.2	29
43	Probing fast ribozyme reactions under biological conditions with rapid quench-flow kinetics. Methods, 2017, 120, 125-134.	1.9	4
44	Activation of the <i>glmS</i> Ribozyme Nucleophile via Overdetermined Hydrogen Bonding. Biochemistry, 2017, 56, 4313-4317.	1.2	14
45	Structure-seq2: sensitive and accurate genome-wide profiling of RNA structure in vivo. Nucleic Acids Research, 2017, 45, e135-e135.	6.5	104
46	Cooperative RNA Folding under Cellular Conditions Arises From Both Tertiary Structure Stabilization and Secondary Structure Destabilization. Biochemistry, 2017, 56, 3422-3433.	1.2	41
47	A High-Throughput Biological Calorimetry Core. Methods in Enzymology, 2016, 567, 435-460.	0.4	6
48	Bridging the gap between <i>in vitro</i> and <i>in vivo</i> RNA folding. Quarterly Reviews of Biophysics, 2016, 49, e10.	2.4	108
49	Assessing the Potential Effects of Active Site Mg <sup>2+</sup> lons in the <i>glmS</i> Ribozyme–Cofactor Complex. Journal of Physical Chemistry Letters, 2016, 7, 3984-3988.	2.1	20
50	Eliminating blurry bands in gels with a simple cost-effective repair to the gel cassette. Rna, 2016, 22, 1929-1930.	1.6	1
51	Genome-Wide Analysis of RNA Secondary Structure. Annual Review of Genetics, 2016, 50, 235-266.	3.2	186
52	Discriminating Self and Non-Self by RNA: Roles for RNA Structure, Misfolding, and Modification in Regulating the Innate Immune Sensor PKR. Accounts of Chemical Research, 2016, 49, 1242-1249.	7.6	58
53	Steady-State and Time-Resolved Studies into the Origin of the Intrinsic Fluorescence of G-Quadruplexes. Journal of Physical Chemistry B, 2016, 120, 5146-5158.	1.2	19
54	Molecular Dynamics Study of Twister Ribozyme: Role of Mg <sup>2+</sup> lons and the Hydrogen-Bonding Network in the Active Site. Biochemistry, 2016, 55, 3834-3846.	1.2	32

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55	Bacterial Riboswitches and Ribozymes Potently Activate the Human Innate Immune Sensor PKR. ACS Chemical Biology, 2016, 11, 1118-1127.	1.6	15
56	Polyamine/Nucleotide Coacervates Provide Strong Compartmentalization of Mg <sup>2+</sup> , Nucleotides, and RNA. Langmuir, 2016, 32, 2041-2049.	1.6	116
5 <b>7</b>	Protein Structure Is Related to RNA Structural Reactivity In Vivo. Journal of Molecular Biology, 2016, 428, 758-766.	2.0	14
58	Amyloid Precursor Protein Translation Is Regulated by a 3'UTR Guanine Quadruplex. PLoS ONE, 2015, 10, e0143160.	1.1	42
59	Mechanistic Analysis of Activation of the Innate Immune Sensor PKR by Bacterial RNA. Journal of Molecular Biology, 2015, 427, 3501-3515.	2.0	12
60	The wonder of RNA: a personal reflection of the last 20 years. Rna, 2015, 21, 515-516.	1.6	0
61	Role of the Active Site Guanine in the <i>glmS</i> Ribozyme Self-Cleavage Mechanism: Quantum Mechanical/Molecular Mechanical Free Energy Simulations. Journal of the American Chemical Society, 2015, 137, 784-798.	6.6	52
62	Genome-wide profiling of in vivo RNA structure at single-nucleotide resolution using structure-seq. Nature Protocols, 2015, 10, 1050-1066.	5.5	87
63	Inverse Thio Effects in the Hepatitis Delta Virus Ribozyme Reveal that the Reaction Pathway Is Controlled by Metal Ion Charge Density. Biochemistry, 2015, 54, 2160-2175.	1.2	50
64	StructureFold: genome-wide RNA secondary structure mapping and reconstruction <i>inÂvivo</i> . Bioinformatics, 2015, 31, 2668-2675.	1.8	43
65	The RNA structurome: transcriptome-wide structure probing with next-generation sequencing. Trends in Biochemical Sciences, 2015, 40, 221-232.	3.7	137
66	A stable RNA G-quadruplex within the 5′-UTR of <i>Arabidopsis thaliana ATR</i> mRNA inhibits translation. Biochemical Journal, 2015, 467, 91-102.	1.7	71
67	Experimental Approaches for Measuring pKa's in RNA and DNA. Methods in Enzymology, 2014, 549, 189-219.	0.4	81
68	In vivo genome-wide profiling of RNA secondary structure reveals novel regulatory features. Nature, 2014, 505, 696-700.	13.7	710
69	Molecular crowders and cosolutes promote folding cooperativity of RNA under physiological ionic conditions. Rna, 2014, 20, 331-347.	1.6	60
70	Quantum Mechanical/Molecular Mechanical Free Energy Simulations of the Self-Cleavage Reaction in the Hepatitis Delta Virus Ribozyme. Journal of the American Chemical Society, 2014, 136, 1483-1496.	6.6	69
71	Bioreactor droplets from liposome-stabilized all-aqueous emulsions. Nature Communications, 2014, 5, 4670.	5.8	210
72	Thio Effects and an Unconventional Metal Ion Rescue in the Genomic Hepatitis Delta Virus Ribozyme. Biochemistry, 2013, 52, 6499-6514.	1.2	50

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73	p <i>K</i> <sub>a</sub> Shifting in Double-Stranded RNA Is Highly Dependent upon Nearest Neighbors and Bulge Positioning. Biochemistry, 2013, 52, 7470-7476.	1.2	23
74	Determination of in vivo RNA structure in low-abundance transcripts. Nature Communications, 2013, 4, 2971.	5.8	113
75	Molecular Crowding Favors Reactivity of a Human Ribozyme Under Physiological Ionic Conditions. Biochemistry, 2013, 52, 8187-8197.	1.2	44
76	Identification of the Catalytic Mg <sup>2+</sup> Ion in the Hepatitis Delta Virus Ribozyme. Biochemistry, 2013, 52, 557-567.	1.2	36
77	Decrease in RNA Folding Cooperativity by Deliberate Population of Intermediates in RNA Gâ€Quadruplexes. Angewandte Chemie - International Edition, 2013, 52, 683-686.	7.2	23
78	A hybridization-based approach for quantitative and low-bias single-stranded DNA ligation. Analytical Biochemistry, 2013, 435, 181-186.	1.1	41
79	Effect of Loop Sequence and Loop Length on the Intrinsic Fluorescence of G-Quadruplexes. Biochemistry, 2013, 52, 3019-3021.	1.2	52
80	A Simple Fluorescence Method for pKaDetermination in RNA and DNA Reveals Highly Shifted pKa's. Journal of the American Chemical Society, 2013, 135, 7390-7393.	6.6	52
81	Native Tertiary Structure and Nucleoside Modifications Suppress tRNA's Intrinsic Ability to Activate the Innate Immune Sensor PKR. PLoS ONE, 2013, 8, e57905.	1.1	25
82	Mechanistic characterization of the 5′-triphosphate-dependent activation of PKR: Lack of 5′-end nucleobase specificity, evidence for a distinct triphosphate binding site, and a critical role for the dsRBD. Rna, 2012, 18, 1862-1874.	1.6	16
83	Activation of PKR by RNA misfolding: HDV ribozyme dimers activate PKR. Rna, 2012, 18, 2157-2165.	1.6	22
84	Prospecting for Aptamers in the Human Genome. Chemistry and Biology, 2012, 19, 1218-1220.	6.2	1
85	Specificity of the Double-Stranded RNA-Binding Domain from the RNA-Activated Protein Kinase PKR for Double-Stranded RNA: Insights from Thermodynamics and Small-Angle X-ray Scattering. Biochemistry, 2012, 51, 9312-9322.	1.2	15
86	Toward a Digital Gene Response: RNA G-Quadruplexes with Fewer Quartets Fold with Higher Cooperativity. Journal of the American Chemical Society, 2012, 134, 812-815.	6.6	46
87	RNA catalysis through compartmentalization. Nature Chemistry, 2012, 4, 941-946.	6.6	297
88	Mechanistic Analysis of the Hepatitis Delta Virus (HDV) Ribozyme: Methods for RNA Preparation, Structure Mapping, Solvent Isotope Effects, and Co-transcriptional Cleavage. Methods in Molecular Biology, 2012, 848, 21-40.	0.4	5
89	Quantum Mechanical/Molecular Mechanical Study of the HDV Ribozyme: Impact of the Catalytic Metal Ion on the Mechanism. Journal of Physical Chemistry Letters, 2011, 2, 2906-2911.	2.1	18
90	Metal Binding Motif in the Active Site of the HDV Ribozyme Binds Divalent and Monovalent lons. Biochemistry, 2011, 50, 2672-2682.	1.2	50

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91	Mechanistic Strategies in the HDV Ribozyme: Chelated and Diffuse Metal Ion Interactions and Active Site Protonation. Journal of Physical Chemistry B, 2011, 115, 8346-8357.	1.2	37
92	Charged Nucleobases and Their Potential for RNA Catalysis. Accounts of Chemical Research, 2011, 44, 1270-1279.	7.6	82
93	Regulation of innate immunity through RNA structure and the protein kinase PKR. Current Opinion in Structural Biology, 2011, 21, 119-127.	2.6	118
94	RNA helical imperfections regulate activation of the protein kinase PKR: Effects of bulge position, size, and geometry. Rna, 2011, 17, 957-966.	1.6	18
95	Prevalence of <i>syn</i> nucleobases in the active sites of functional RNAs. Rna, 2011, 17, 1775-1787.	1.6	52
96	Incorporation of pseudouridine into mRNA enhances translation by diminishing PKR activation. Nucleic Acids Research, 2010, 38, 5884-5892.	6.5	400
97	RNA G-Quadruplexes in the model plant species Arabidopsis thaliana: prevalence and possible functional roles. Nucleic Acids Research, 2010, 38, 8149-8163.	6.5	93
98	Role of Unsatisfied Hydrogen Bond Acceptors in RNA Energetics and Specificity. Journal of the American Chemical Society, 2010, 132, 5342-5344.	6.6	31
99	Regulation of PKR by HCV IRES RNA: Importance of Domain II and NS5A. Journal of Molecular Biology, 2010, 400, 393-412.	2.0	57
100	Long-Distance Communication in the HDV Ribozyme: Insights from Molecular Dynamics and Experiments. Journal of Molecular Biology, 2010, 402, 278-291.	2.0	25
101	The Human HDV-like <i>CPEB3</i> Ribozyme Is Intrinsically Fast-Reacting. Biochemistry, 2010, 49, 5321-5330.	1.2	47
102	Driving Forces for Nucleic Acid p <i>K</i> <sub>a</sub> Shifting in an A <sup>+</sup> ·C Wobble: Effects of Helix Position, Temperature, and Ionic Strength. Biochemistry, 2010, 49, 3225-3236.	1.2	47
103	A 1.9 Ã Crystal Structure of the HDV Ribozyme Precleavage Suggests both Lewis Acid and General Acid Mechanisms Contribute to Phosphodiester Cleavage. Biochemistry, 2010, 49, 6508-6518.	1.2	123
104	Molecular basis of TRAP–5â€2SL RNA interaction in the <i>Bacillus subtilis trp</i> operon transcription attenuation mechanism. Rna, 2009, 15, 55-66.	1.6	9
105	Chapter 13 Thinking Inside the Box. Methods in Enzymology, 2009, 455, 365-393.	0.4	24
106	PKR and the ribosome compete for mRNA. Nature Chemical Biology, 2009, 5, 873-874.	3.9	4
107	Analyzing RNA and DNA Folding Using Temperature Gradient Gel Electrophoresis (TGGE) with Application to In Vitro Selections. Methods in Enzymology, 2009, 468, 389-408.	0.4	5
108	Raman crystallography of RNA Methods 2009 49 101-111	19	30

Raman crystallography of RNA. Methods, 2009, 49, 101-111.

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109	RNA Dimerization Promotes PKR Dimerization and Activation. Journal of Molecular Biology, 2009, 390, 319-338.	2.0	65
110	Contribution of the Closing Base Pair to Exceptional Stability in RNA Tetraloops: Roles for Molecular Mimicry and Electrostatic Factors. Journal of the American Chemical Society, 2009, 131, 8474-8484.	6.6	38
111	Nucleoside modifications modulate activation of the protein kinase PKR in an RNA structureâ€specific manner. FASEB Journal, 2009, 23, 662.4.	0.2	Ο
112	Editorial overview: exploring the vast dynamic range of RNA dynamics. Current Opinion in Chemical Biology, 2008, 12, 601-603.	2.8	4
113	Structures, Kinetics, Thermodynamics, and Biological Functions of RNA Hairpins. Annual Review of Physical Chemistry, 2008, 59, 79-103.	4.8	105
114	Nucleoside modifications modulate activation of the protein kinase PKR in an RNA structure-specific manner. Rna, 2008, 14, 1201-1213.	1.6	119
115	Detection of Innersphere Interactions between Magnesium Hydrate and the Phosphate Backbone of the HDV Ribozyme Using Raman Crystallography. Journal of the American Chemical Society, 2008, 130, 9670-9672.	6.6	46
116	Mechanistic Characterization of the HDV Genomic Ribozyme: Solvent Isotope Effects and Proton Inventories in the Absence of Divalent Metal Ions Support C75 as the General Acid. Journal of the American Chemical Society, 2008, 130, 14504-14520.	6.6	46
117	A brilliant disguise for self RNA: 5'-end and internal modifications of primary transcripts suppress elements of innate immunity. RNA Biology, 2008, 5, 140-144.	1.5	65
118	Mechanistic characterization of the HDV genomic ribozyme: The cleavage site base pair plays a structural role in facilitating catalysis. Rna, 2008, 14, 1746-1760.	1.6	17
119	Insight into the functional versatility of RNA through model-making with applications to data fitting. Quarterly Reviews of Biophysics, 2007, 40, 55-85.	2.4	3
120	TRAP-5′ stem–loop interaction increases the efficiency of transcription termination in the <i>Bacillus subtilis trpEDCFBA</i> ) operon leader region. Rna, 2007, 13, 2020-2033.	1.6	14
121	Wild-type is the optimal sequence of the HDV ribozyme under cotranscriptional conditions. Rna, 2007, 13, 2189-2201.	1.6	46
122	5'-Triphosphate-Dependent Activation of PKR by RNAs with Short Stem-Loops. Science, 2007, 318, 1455-1458.	6.0	206
123	The Biophysics of RNA. ACS Chemical Biology, 2007, 2, 440-444.	1.6	7
124	Folding Cooperativity in RNA and DNA Is Dependent on Position in the Helixâ€. Biochemistry, 2007, 46, 172-181.	1.2	45
125	Mechanistic Characterization of the HDV Genomic Ribozyme:Â A Mutant of the C41 Motif Provides Insight into the Positioning and Thermodynamic Linkage of Metal Ions and Protonsâ€. Biochemistry, 2007, 46, 3001-3012.	1.2	45
126	Direct Measurement of a pKanear Neutrality for the Catalytic Cytosine in the Genomic HDV Ribozyme Using Raman Crystallography. Journal of the American Chemical Society, 2007, 129, 13335-13342.	6.6	96

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127	A Simple Molecular Model for Thermophilic Adaptation of Functional Nucleic Acids. Biochemistry, 2007, 46, 4232-4240.	1.2	10
128	A Conformationally Restricted Guanosine Analog Reveals the Catalytic Relevance of Three Structures of an RNA Enzyme. Chemistry and Biology, 2007, 14, 23-30.	6.2	24
129	Exploring the Energy Landscape of a Small RNA Hairpin. Journal of the American Chemical Society, 2006, 128, 1523-1530.	6.6	129
130	Nucleobase catalysis in ribozyme mechanism. Current Opinion in Chemical Biology, 2006, 10, 455-464.	2.8	117
131	Linkage between proton binding and folding in RNA: A thermodynamic framework and its experimental application for investigating pKa shifting. Rna, 2005, 11, 157-172.	1.6	54
132	Activation of the protein kinase PKR by short double-stranded RNAs with single-stranded tails. Rna, 2004, 10, 1934-1945.	1.6	84
133	The double-stranded-RNA-binding motif: interference and much more. Nature Reviews Molecular Cell Biology, 2004, 5, 1013-1023.	16.1	229
134	Catalytic roles for proton transfer and protonation in ribozymes. Biopolymers, 2004, 73, 90-109.	1.2	144
135	Simple Method for Determining Nucleobase pKaValues by Indirect Labeling and Demonstration of a pKaof Neutrality in dsDNA. Journal of the American Chemical Society, 2004, 126, 10200-10201.	6.6	29
136	Folding Thermodynamics and Kinetics of YNMG RNA Hairpins:Â Specific Incorporation of 8-Bromoguanosine Leads to Stabilization by Enhancement of the Folding Rateâ€. Biochemistry, 2004, 43, 14004-14014.	1.2	80
137	Evidence that Folding of an RNA Tetraloop Hairpin Is Less Cooperative than Its DNA Counterpart. Biochemistry, 2004, 43, 7992-7998.	1.2	39
138	Continuous Monitoring of Enzyme Reactions on a Microchip:Â Application to Catalytic RNA Self-Cleavage. Analytical Chemistry, 2004, 76, 6921-6927.	3.2	4
139	Structural and Energetic Consequences of Expanding a Highly Cooperative Stable DNA Hairpin Loop. Journal of the American Chemical Society, 2004, 126, 9570-9577.	6.6	24
140	Design of a Highly Reactive HDV Ribozyme Sequence Uncovers Facilitation of RNA Folding by Alternative Pairings and Physiological Ionic Strength. Journal of Molecular Biology, 2004, 341, 695-712.	2.0	49
141	Mechanistic Considerations for General Acidâ	1.2	189
142	Folding of a Stable DNA Motif Involves a Highly Cooperative Network of Interactions. Journal of the American Chemical Society, 2003, 125, 16285-16293.	6.6	72
143	Mechanistic Characterization of the HDV Genomic Ribozyme: Classifying the Catalytic and Structural Metal Ion Sites within a Multichannel Reaction Mechanismâ€. Biochemistry, 2003, 42, 2982-2994.	1.2	82
144	Restricting the Conformational Heterogeneity of RNA by Specific Incorporation of 8-Bromoguanosine. Journal of the American Chemical Society, 2003, 125, 2390-2391.	6.6	32

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145	Thermodynamic Coupling of the Loop and Stem in Unusually Stable DNA Hairpins Closed by CG Base Pairs. Journal of the American Chemical Society, 2003, 125, 2032-2033.	6.6	36
146	A Mg2+-dependent RNA Tertiary Structure Forms in the Bacillus subtilis trp Operon Leader Transcript and Appears to Interfere with trpE Translation Control by Inhibiting TRAP Binding. Journal of Molecular Biology, 2003, 332, 555-574.	2.0	21
147	Role of RNA Structure in Transcription Attenuation in Bacillus subtilis: The trpEDCFBA Operon as a Model System. Methods in Enzymology, 2003, 371, 392-404.	0.4	15
148	Phylogenetic conservation of RNA secondary and tertiary structure in the trpEDCFBA operon leader transcript in Bacillus. Rna, 2003, 9, 1502-1515.	1.6	3
149	The folding pathway of the genomic hepatitis delta virus ribozyme is dominated by slow folding of the pseudoknots 1 1Edited by J. Doudna. Journal of Molecular Biology, 2002, 317, 559-575.	2.0	63
150	Isolation and Characterization of a Family of Stable RNA Tetraloops with the Motif YNMG That Participate in Tertiary Interactions. Biochemistry, 2002, 41, 12062-12075.	1.2	78
151	A Mechanistic Framework for Co-transcriptional Folding of the HDV Genomic Ribozyme in the Presence of Downstream Sequence. Journal of Molecular Biology, 2002, 324, 1-16.	2.0	47
152	Battle for the Bulge. Chemistry and Biology, 2002, 9, 854-855.	6.2	3
153	Mechanistic Characterization of the HDV Genomic Ribozyme:Â Assessing the Catalytic and Structural Contributions of Divalent Metal Ions within a Multichannel Reaction Mechanismâ€. Biochemistry, 2001, 40, 12022-12038.	1.2	136
154	Proton Inventory of the Genomic HDV Ribozyme in Mg2+-Containing Solutions. Journal of the American Chemical Society, 2001, 123, 11333-11334.	6.6	52
155	A role for upstream RNA structure in facilitating the catalytic fold of the genomic hepatitis delta virus ribozyme 1 1Edited by J. A. Doudna. Journal of Molecular Biology, 2000, 301, 349-367.	2.0	81
156	General Acid-Base Catalysis in the Mechanism of a Hepatitis Delta Virus Ribozyme. Science, 2000, 287, 1493-1497.	6.0	398
157	Single-Nucleotide Resolution of RNA Strands in the Presence of their RNA Complements. BioTechniques, 1999, 27, 450-456.	0.8	6
158	Isolation and Characterization of Thermodynamically Stable and Unstable RNA Hairpins from a Triloop Combinatorial Library. Biochemistry, 1999, 38, 15369-15379.	1.2	45
159	Thermodynamic Stability of the P4â^'P6 Domain RNA Tertiary Structure Measured by Temperature Gradient Gel Electrophoresisâ€. Biochemistry, 1998, 37, 11162-11170.	1.2	40
160	Thermodynamic Analysis of an RNA Combinatorial Library Contained in a Short Hairpin. Biochemistry, 1998, 37, 15877-15884.	1.2	59
161	Minor-Groove Recognition of Double-Stranded RNA by the Double-Stranded RNA-Binding Domain from the RNA-Activated Protein Kinase PKRâ€. Biochemistry, 1996, 35, 9983-9994.	1.2	232
162	Thermodynamic and activation parameters for binding of a pyrene-labeled substrate by the Tetrahymena ribozyme: docking is not diffusion-controlled and is driven by a favorable entropy change. Biochemistry, 1995, 34, 14394-14399.	1.2	55

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163	Fluorescence-Detected Stopped Flow with a Pyrene Labeled Substrate Reveals That Guanosine Facilitates Docking of the 5' Cleavage Site into a High Free Energy Binding Mode in the Tetrahymena Ribozyme. Biochemistry, 1994, 33, 11340-11348.	1.2	47
164	5'-Amino pyrene provides a sensitive, nonperturbing fluorescent probe of RNA secondary and tertiary structure formation. Journal of the American Chemical Society, 1993, 115, 4985-4992.	6.6	69
165	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
166	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