

Naoki Sugimoto

List of Publications by Year in descending order

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148
papers

8,262
citations

50276

46
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51608

86
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161
all docs

161
docs citations

161
times ranked

5715
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic Parameters To Predict Stability of RNA/DNA Hybrid Duplexes. <i>Biochemistry</i> , 1995, 34, 11211-11216.	2.5	660
2	Improved Thermodynamic Parameters and Helix Initiation Factor to Predict Stability of DNA Duplexes. <i>Nucleic Acids Research</i> , 1996, 24, 4501-4505.	14.5	453
3	Effects of Molecular Crowding on the Structures, Interactions, and Functions of Nucleic Acids. <i>Chemical Reviews</i> , 2014, 114, 2733-2758.	47.7	430
4	Hydration Regulates Thermodynamics of G-Quadruplex Formation under Molecular Crowding Conditions. <i>Journal of the American Chemical Society</i> , 2006, 128, 7957-7963.	13.7	301
5	Molecular crowding effects on structure and stability of DNA. <i>Biochimie</i> , 2008, 90, 1040-1051.	2.6	234
6	The Effect of Molecular Crowding with Nucleotide Length and Cosolute Structure on DNA Duplex Stability. <i>Journal of the American Chemical Society</i> , 2004, 126, 14330-14331.	13.7	209
7	Molecular crowding of the cosolutes induces an intramolecular i-motif structure of triplet repeat DNA oligomers at neutral pH. <i>Chemical Communications</i> , 2010, 46, 1299.	4.1	176
8	Molecular Crowding Regulates the Structural Switch of the DNA G-Quadruplex. <i>Biochemistry</i> , 2002, 41, 15017-15024.	2.5	175
9	Duplex Dissociation of Telomere DNAs Induced by Molecular Crowding. <i>Journal of the American Chemical Society</i> , 2004, 126, 165-169.	13.7	169
10	Characterization of Structure and Stability of Long Telomeric DNA G-Quadruplexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 15461-15468.	13.7	166
11	Free energy increments for hydrogen bonds in nucleic acid base pairs. <i>Journal of the American Chemical Society</i> , 1987, 109, 3783-3785.	13.7	158
12	DNA Logic Gates Based on Structural Polymorphism of Telomere DNA Molecules Responding to Chemical Input Signals. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7716-7719.	13.8	138
13	Thermodynamics-Structure Relationship of Single Mismatches in RNA/DNA Duplexes. <i>Biochemistry</i> , 2000, 39, 11270-11281.	2.5	137
14	Stability of XGCGCp, GCGCYp, and XGCGCYp helices: an empirical estimate of the energetics of hydrogen bonds in nucleic acids. <i>Biochemistry</i> , 1986, 25, 3214-3219.	2.5	134
15	Monomorphic RNA G-Quadruplex and Polymorphic DNA G-Quadruplex Structures Responding to Cellular Environmental Factors. <i>Biochemistry</i> , 2010, 49, 4554-4563.	2.5	130
16	Hydration of Watson-Crick Base Pairs and Dehydration of Hoogsteen Base Pairs Inducing Structural Polymorphism under Molecular Crowding Conditions. <i>Journal of the American Chemical Society</i> , 2009, 131, 3522-3531.	13.7	127
17	Suppression of Gene Expression by G-Quadruplexes in Open Reading Frames Depends on G-Quadruplex Stability. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5522-5526.	13.8	125
18	Sequence dependence for the energetics of dangling ends and terminal base pairs in ribonucleic acid. <i>Biochemistry</i> , 1987, 26, 4554-4558.	2.5	124

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19	Facilitation of RNA Enzyme Activity in the Molecular Crowding Media of Cosolutes. <i>Journal of the American Chemical Society</i> , 2009, 131, 16881-16888.	13.7	121
20	Structural Competition Involving G-Quadruplex DNA and Its Complement. <i>Biochemistry</i> , 2003, 42, 11736-11744.	2.5	113
21	Phthalocyanines: a new class of G-quadruplex-ligands with many potential applications. <i>Chemical Communications</i> , 2012, 48, 6203.	4.1	106
22	Structure, stability and behaviour of nucleic acids in ionic liquids. <i>Nucleic Acids Research</i> , 2014, 42, 8831-8844.	14.5	104
23	Topological impact of noncanonical DNA structures on Klenow fragment of DNA polymerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9605-9610.	7.1	104
24	Energetics of internal GU mismatches in ribooligonucleotide helices. <i>Biochemistry</i> , 1986, 25, 5755-5759.	2.5	101
25	Beads-on-a-String Structure of Long Telomeric DNAs under Molecular Crowding Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 20060-20069.	13.7	96
26	Multiple and Cooperative Binding of Fluorescence Light-up Probe Thioflavin T with Human Telomere DNA G-Quadruplex. <i>Biochemistry</i> , 2013, 52, 5620-5628.	2.5	96
27	A-T Base Pairs are More Stable Than G-C Base Pairs in a Hydrated Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1416-1419.	13.8	94
28	Efficacy of Base-Modification on Target Binding of Small Molecule DNA Aptamers. <i>Journal of the American Chemical Society</i> , 2013, 135, 9412-9419.	13.7	92
29	Loop residues of thrombin-binding DNA aptamer impact G-quadruplex stability and thrombin binding. <i>Biochimie</i> , 2011, 93, 1231-1238.	2.6	81
30	Long RNA Dangling End Has Large Energetic Contribution to Duplex Stability. <i>Journal of the American Chemical Society</i> , 2002, 124, 10367-10372.	13.7	79
31	Destabilization of DNA G-Quadruplexes by Chemical Environment Changes during Tumor Progression Facilitates Transcription. <i>Journal of the American Chemical Society</i> , 2018, 140, 642-651.	13.7	79
32	Drastic Effect of a Single Base Difference between Human and Tetrahymena Telomere Sequences on Their Structures under Molecular Crowding Conditions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3740-3744.	13.8	78
33	Regulation of DNA nucleases by molecular crowding. <i>Nucleic Acids Research</i> , 2007, 35, 4086-4093.	14.5	75
34	Effect of molecular crowding on DNA polymerase activity. <i>Biotechnology Journal</i> , 2006, 1, 440-446.	3.5	70
35	The structural stability and catalytic activity of DNA and RNA oligonucleotides in the presence of organic solvents. <i>Biophysical Reviews</i> , 2016, 8, 11-23.	3.2	66
36	Stability of RNA quadruplex in open reading frame determines proteolysis of human estrogen receptor. <i>Nucleic Acids Research</i> , 2013, 41, 6222-6231.	14.5	63

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37	Choline Ion Interactions with DNA Atoms Explain Unique Stabilization of Aâ€“T Base Pairs in DNA Duplexes: A Microscopic View. <i>Journal of Physical Chemistry B</i> , 2014, 118, 379-389.	2.6	63
38	Engineering exosome polymer hybrids by atom transfer radical polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	63
39	Stabilization of Three-Way Junctions of DNA under Molecular Crowding Conditions. <i>Journal of the American Chemical Society</i> , 2009, 131, 9268-9280.	13.7	61
40	Chemical biology of non-canonical structures of nucleic acids for therapeutic applications. <i>Chemical Communications</i> , 2020, 56, 2379-2390.	4.1	59
41	Effects of metal ions and cosolutes on G-quadruplex topology. <i>Journal of Inorganic Biochemistry</i> , 2017, 166, 190-198.	3.5	57
42	Anionic phthalocyanines targeting G-quadruplexes and inhibiting telomerase activity in the presence of excessive DNA duplexes. <i>Chemical Communications</i> , 2010, 46, 5740.	4.1	56
43	An anionic phthalocyanine decreases NRAS expression by breaking down its RNA G-quadruplex. <i>Nature Communications</i> , 2018, 9, 2271.	12.8	55
44	New Insights into Transcription Fidelity: Thermal Stability of Non-Canonical Structures in Template DNA Regulates Transcriptional Arrest, Pause, and Slippage. <i>PLoS ONE</i> , 2014, 9, e90580.	2.5	51
45	Recovery of the Formation and Function of Oxidized G-Quadruplexes by a Pyrene-Modified Guanine Tract. <i>Journal of the American Chemical Society</i> , 2018, 140, 5774-5783.	13.7	49
46	Hydration Changes upon DNA Folding Studied by Osmotic Stress Experiments. <i>Biophysical Journal</i> , 2012, 102, 2808-2817.	0.5	47
47	Roles of non-canonical structures of nucleic acids in cancer and neurodegenerative diseases. <i>Nucleic Acids Research</i> , 2021, 49, 7839-7855.	14.5	47
48	Sequence dependence for the energetics of terminal mismatches in ribooligonucleotides. <i>Biochemistry</i> , 1987, 26, 4559-4562.	2.5	46
49	Conformation and the sodium ion condensation on DNA and RNA structures in the presence of a neutral cosolute as a mimic of the intracellular media. <i>Molecular BioSystems</i> , 2008, 4, 579.	2.9	46
50	Effect of Pressure on Thermal Stability of G-Quadruplex DNA and Double-Stranded DNA Structures. <i>Molecules</i> , 2013, 18, 13297-13319.	3.8	46
51	Loop nucleotides impact the stability of intrastrand i-motif structures at neutral pH. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16719-16722.	2.8	44
52	Pursuing origins of (poly)ethylene glycol-induced G-quadruplex structural modulations. <i>Nucleic Acids Research</i> , 2018, 46, 4301-4315.	14.5	44
53	Stability prediction of canonical and non-canonical structures of nucleic acids in various molecular environments and cells. <i>Chemical Society Reviews</i> , 2020, 49, 8439-8468.	38.1	44
54	DNA tetraplex structure formation from human telomeric repeat motif (TTAGGG):(CCCTAA) in nanocavity water pools of reverse micelles. <i>Chemical Communications</i> , 2012, 48, 4815.	4.1	43

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55	Model studies of the effects of intracellular crowding on nucleic acid interactions. <i>Molecular BioSystems</i> , 2017, 13, 32-41.	2.9	43
56	Comparable Stability of Hoogsteen and Watson-Crick Base Pairs in Ionic Liquid Choline Dihydrogen Phosphate. <i>Scientific Reports</i> , 2014, 4, 3593.	3.3	42
57	Unusual ~ 1 Ribosomal Frameshift Caused by Stable RNA G-Quadruplex in Open Reading Frame. <i>Analytical Chemistry</i> , 2013, 85, 11435-11439.	6.5	41
58	Structural Polymorphism of Telomeric DNA Regulated by pH and Divalent Cation. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 203-221.	1.1	39
59	Mechanical insights into ribosomal progression overcoming RNA G-quadruplex from periodical translation suppression in cells. <i>Scientific Reports</i> , 2016, 6, 22719.	3.3	39
60	Nearest-neighbor parameters for predicting DNA duplex stability in diverse molecular crowding conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14194-14201.	7.1	37
61	Stabilization Factors Affecting Duplex Formation of Peptide Nucleic Acid with DNA. <i>Biochemistry</i> , 2001, 40, 8444-8451.	2.5	36
62	Novel One-Tube-One-Step Real-Time Methodology for Rapid Transcriptomic Biomarker Detection: Signal Amplification by Ternary Initiation Complexes. <i>Analytical Chemistry</i> , 2016, 88, 7137-7144.	6.5	36
63	i-Motifs are more stable than G-quadruplexes in a hydrated ionic liquid. <i>Chemical Communications</i> , 2015, 51, 6909-6912.	4.1	35
64	Molecular Crowding and Hydration Regulating of G-Quadruplex Formation. <i>Topics in Current Chemistry</i> , 2012, 330, 87-110.	4.0	34
65	Real-Time Monitoring of G-Quadruplex Formation during Transcription. <i>Analytical Chemistry</i> , 2016, 88, 1984-1989.	6.5	34
66	Study on effects of molecular crowding on G-quadruplex-ligand binding and ligand-mediated telomerase inhibition. <i>Methods</i> , 2013, 64, 19-27.	3.8	33
67	Tuning Riboswitch-Mediated Gene Regulation by Rational Control of Aptamer Ligand Binding Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 905-909.	13.8	33
68	Thrombin binding aptamer G-quadruplex stabilized by pyrene-modified nucleotides. <i>Nucleic Acids Research</i> , 2020, 48, 3975-3986.	14.5	32
69	tRNA Shifts the G-quadruplex-Hairpin Conformational Equilibrium in RNA towards the Hairpin Conformer. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14315-14319.	13.8	31
70	Chemical Modulation of DNA Replication along G-Quadruplex Based on Topology-Dependent Ligand Binding. <i>Journal of the American Chemical Society</i> , 2021, 143, 16458-16469.	13.7	31
71	Regulation of Telomerase Activity by the Thermodynamic Stability of a DNA-RNA Hybrid. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9034-9038.	13.8	30
72	Noncanonical Structures and Their Thermodynamics of DNA and RNA Under Molecular Crowding. <i>International Review of Cell and Molecular Biology</i> , 2014, 307, 205-273.	3.2	30

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73	Unexpected Position-Dependent Effects of Ribose G-Quartets in G-Quadruplexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 7768-7779.	13.7	30
74	Validation of the nearest-neighbor model for Watson-Crick self-complementary DNA duplexes in molecular crowding condition. <i>Nucleic Acids Research</i> , 2019, 47, 3284-3294.	14.5	30
75	Characterization of Intracellular Crowding Environments with Topology-Based DNA Quadruplex Sensors. <i>Analytical Chemistry</i> , 2019, 91, 2586-2590.	6.5	30
76	Improved nearest-neighbor parameters for the stability of RNA/DNA hybrids under a physiological condition. <i>Nucleic Acids Research</i> , 2020, 48, 12042-12054.	14.5	30
77	Effect of Molecular Crowding on the Stability of RNA G-Quadruplexes with Various Numbers of Quartets and Lengths of Loops. <i>Biochemistry</i> , 2020, 59, 2640-2649.	2.5	30
78	Watson-Crick versus Hoogsteen Base Pairs: Chemical Strategy to Encode and Express Genetic Information in Life. <i>Accounts of Chemical Research</i> , 2021, 54, 2110-2120.	15.6	30
79	Conformational Flexibility Influences Degree of Hydration of Nucleic Acid Hybrids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13862-13872.	2.6	29
80	Conformational Dynamics of the RNA G-Quadruplex and its Effect on Translation Efficiency. <i>Molecules</i> , 2019, 24, 1613.	3.8	29
81	Effects of Polyethylene Glycol on DNA Duplex Stability at Different NaCl Concentrations. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 1987-1994.	3.2	28
82	Ruthenium Polypyridyl Complex Bound to a Unimolecular Chair-Form G-Quadruplex. <i>Journal of the American Chemical Society</i> , 2022, 144, 5956-5964.	13.7	28
83	RNA/DNA hybrid duplexes with identical nearest-neighbor base-pairs have identical stability. <i>FEBS Letters</i> , 1994, 354, 74-78.	2.8	27
84	Dimerization of Nucleic Acid Hairpins in the Conditions Caused by Neutral Cosolutes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7406-7415.	2.6	26
85	Translational halt during elongation caused by G-quadruplex formed by mRNA. <i>Methods</i> , 2013, 64, 73-78.	3.8	25
86	Preferential targeting cancer-related i-motif DNAs by the plant flavonol fisetin for theranostics applications. <i>Scientific Reports</i> , 2020, 10, 2504.	3.3	25
87	Structural effect of synthetic zwitterionic cosolutes on the stability of DNA duplexes. <i>Tetrahedron</i> , 2008, 64, 168-174.	1.9	24
88	Effects of trimethylamine <i>N</i> -oxide and urea on DNA duplex and G-quadruplex. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 753-759.	6.1	24
89	Newly characterized interaction stabilizes DNA structure: oligoethylene glycols stabilize G-quadruplexes CH π - π interactions. <i>Nucleic Acids Research</i> , 2017, 45, 7021-7030.	14.5	23
90	Crowding Shifts the FMN Recognition Mechanism of Riboswitch Aptamer from Conformational Selection to Induced Fit. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6868-6872.	13.8	22

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91	Quantitative Analyses of Nucleic Acid Stability Under the Molecular Crowding Condition Induced by Cosolutes. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2013, 53, Unit7.19.	0.5	20
92	Volumetric contributions of loop regions of G-quadruplex DNA to the formation of the tertiary structure. <i>Biophysical Chemistry</i> , 2017, 231, 146-154.	2.8	19
93	Chemical Biology of Double Helical and Non-Double Helical Nucleic Acids: <i>â€œTo <i>B</i> or Not To <i>B</i></i> , That Is the Questionâ€• <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1970-1998.	3.2	19
94	Thermodynamic stability of Hoogsteen and Watsonâ€“Crick base pairs in the presence of histone H3-mimicking peptide. <i>Chemical Communications</i> , 2011, 47, 2790.	4.1	18
95	Volumetric analysis of formation of the complex of G-quadruplex DNA with hemin using high pressure. <i>Journal of Inorganic Biochemistry</i> , 2017, 166, 199-207.	3.5	18
96	The Effects of Molecular Crowding on the Structure and Stability of G-Quadruplexes with an Abasic Site. <i>Journal of Nucleic Acids</i> , 2011, 2011, 1-9.	1.2	17
97	RNA G-Quadruplexes Facilitate RNA Accumulation in G-Rich Repeat Expansions. <i>Biochemistry</i> , 2020, 59, 1972-1980.	2.5	16
98	Dehydration from conserved stem regions is fundamental for ligand-dependent conformational transition of the adenine-specific riboswitch. <i>Chemical Communications</i> , 2012, 48, 9693.	4.1	15
99	Control of stability and structure of nucleic acids using cosolutes. <i>Methods</i> , 2014, 67, 151-158.	3.8	15
100	New Insights into the Functions of Nucleic Acids Controlled by Cellular Microenvironments. <i>Topics in Current Chemistry</i> , 2021, 379, 17.	5.8	15
101	Rational Design and Tuning of Functional RNA Switch to Control an Allosteric Intermolecular Interaction. <i>Analytical Chemistry</i> , 2015, 87, 7628-7635.	6.5	14
102	Synchronized Translation for Detection of Temporal Stalling of Ribosome during Single-Turnover Translation. <i>Analytical Chemistry</i> , 2012, 84, 857-861.	6.5	13
103	Drastic Stabilization of Parallel DNA Hybridizations by a Polylysine Combâ€“type Copolymer with Hydrophilic Graft Chain. <i>ChemMedChem</i> , 2014, 9, 2156-2163.	3.2	13
104	Thermal Stability of RNA Structures with Bulky Cations in Mixed Aqueous Solutions. <i>Biophysical Journal</i> , 2016, 111, 1350-1360.	0.5	13
105	Conformational Dynamics of mRNA in Gene Expression as New Pharmaceutical Target. <i>Chemical Record</i> , 2017, 17, 817-832.	5.8	13
106	Control of guanine-rich DNA secondary structures depending on the protease activity using a designed PNA peptide. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2022-2025.	2.8	12
107	Alkylating probes for the G-quadruplex structure and evaluation of the properties of the alkylated G-quadruplex DNA. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1436-1441.	2.8	12
108	Molecular crowding induces primer extension by RNA polymerase through base stacking beyond Watsonâ€“Crick rules. <i>RSC Advances</i> , 2020, 10, 33052-33058.	3.6	12

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109	Sole and Stable RNA Duplexes of G-Rich Sequences Located in the 5' Untranslated Region of Protooncogenes. <i>Biochemistry</i> , 2010, 49, 7190-7201.	2.5	11
110	Specific Light-Up System for Protein and Metabolite Targets Triggered by Initiation Complex Formation. <i>Scientific Reports</i> , 2017, 7, 15191.	3.3	11
111	Bisubstrate Function of RNA Polymerases Triggered by Molecular Crowding Conditions. <i>Biochemistry</i> , 2019, 58, 1081-1093.	2.5	11
112	Transcriptome screening followed by integrated physicochemical and structural analyses for investigating RNA-mediated berberine activity. <i>Nucleic Acids Research</i> , 2021, 49, 8449-8461.	14.5	11
113	Gene Regulation System with an Artificial RNA Switch Operating in Human Cells. <i>ChemBioChem</i> , 2011, 12, 1174-1178.	2.6	10
114	Key Tertiary Interactions in FMN Riboswitch Aptamers Required for Ligand Binding. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 946-948.	3.2	10
115	G-Quadruplexes with Tetra(ethylene glycol)-Modified Deoxythymidines are Resistant to Nucleases and Inhibit HIV-1 Reverse Transcriptase. <i>ChemBioChem</i> , 2016, 17, 1399-1402.	2.6	10
116	Stabilization of DNA Loop Structures by Large Cations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7687-7694.	2.6	9
117	RNA-Capturing Microsphere Particles (RCAMPs) for Optimization of Functional Aptamers. <i>Small</i> , 2019, 15, e1805062.	10.0	9
118	Drastic stability change of X-X mismatch in d(CXG) trinucleotide repeat disorders under molecular crowding condition. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 601-607.	2.1	8
119	Effect of Potassium Concentration on Triplex Stability under Molecular Crowding Conditions. <i>Molecules</i> , 2020, 25, 387.	3.8	8
120	Selection of RNAs for Constructing "Lighting-UP" Biomolecular Switches in Response to Specific Small Molecules. <i>PLoS ONE</i> , 2013, 8, e60222.	2.5	7
121	Co-Transcriptional Molecular Assembly Results in a Kinetically Controlled Irreversible RNA Conformational Switch. <i>Analytical Chemistry</i> , 2018, 90, 11193-11197.	6.5	7
122	<i>In situ</i> condensation of an anti-cancer drug into fibrin gel enabling effective inhibition of tumor cell growth. <i>Chemical Communications</i> , 2019, 55, 11679-11682.	4.1	7
123	C-Rich Sequence in a Non-Template DNA Strand Regulates Structure Change of G-Quadruplex in a Template Strand during Transcription. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 572-577.	3.2	7
124	Combined Effects of Methylated Cytosine and Molecular Crowding on the Thermodynamic Stability of DNA Duplexes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 947.	4.1	7
125	Effect of DNA modifications on the transition between canonical and non-canonical DNA structures in CpG islands during senescence. <i>RSC Advances</i> , 2021, 11, 37205-37217.	3.6	7
126	Organelle-mimicking liposome dissociates G-quadruplexes and facilitates transcription. <i>Nucleic Acids Research</i> , 2014, 42, 12949-12959.	14.5	6

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127	Modulation of Ribozyme and Deoxyribozyme Activities Using Tetraalkylammonium Ions. <i>ChemPhysChem</i> , 2017, 18, 3614-3619.	2.1	6
128	Signaling Aptamer Optimization through Selection Using RNA-Capturing Microsphere Particles. <i>Analytical Chemistry</i> , 2020, 92, 7955-7963.	6.5	6
129	Lighting Up of Thiazole Orange on G-Quadruplex DNA by High Pressure. <i>ACS Omega</i> , 2019, 4, 4325-4329.	3.5	5
130	Effect of Molecular Crowding on DNA Polymerase Reactions along Unnatural DNA Templates. <i>Molecules</i> , 2020, 25, 4120.	3.8	5
131	New Modified Deoxythymine with Dibranching Tetraethylene Glycol Stabilizes G-Quadruplex Structures. <i>Molecules</i> , 2020, 25, 705.	3.8	5
132	Dangling Ends Perturb the Stability of RNA Duplexes Responsive to Surrounding Conditions. <i>ChemMedChem</i> , 2014, 9, 2150-2155.	3.2	4
133	tRNA Shifts the G-Quadruplex-Hairpin Conformational Equilibrium in RNA towards the Hairpin Conformer. <i>Angewandte Chemie</i> , 2016, 128, 14527-14531.	2.0	4
134	Quantitative Analysis of Stall of Replicating DNA Polymerase by G-Quadruplex Formation. <i>Methods in Molecular Biology</i> , 2019, 2035, 257-274.	0.9	4
135	Effects of Modifying Thioflavin T at the N3-Position on Its G4 Binding and Fluorescence Emission. <i>Molecules</i> , 2020, 25, 4936.	3.8	4
136	Hydroxyl groups in cosolutes regulate the G-quadruplex topology of telomeric DNA. <i>Biochemical and Biophysical Research Communications</i> , 2020, 525, 177-183.	2.1	4
137	Dielectricity of a molecularly crowded solution accelerates NTP misincorporation during RNA-dependent RNA polymerization by T7 RNA polymerase. <i>Scientific Reports</i> , 2022, 12, 1149.	3.3	4
138	Intramolecular G-quadruplex-hairpin loop structure competition of a GC-rich exon region in the <i>TMPRSS2</i> gene. <i>Chemical Communications</i> , 2021, 58, 48-51.	4.1	4
139	Volumetric Strategy for Quantitatively Elucidating a Local Hydration Network around a G-Quadruplex. <i>Analytical Chemistry</i> , 2022, 94, 7400-7407.	6.5	4
140	Aptamer-Based Universal Fluorometric Sensors Based on Allosteric Modulation of RNA-Peptide Interactions. <i>ChemMedChem</i> , 2014, 9, 2045-2048.	3.2	3
141	Quantitative Analysis of Nucleic Acid Stability with Ligands Under High Pressure to Design Novel Drugs Targeting G-Quadruplexes. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2017, 70, 17.9.1-17.9.17.	0.5	3
142	Design and Properties of Ligand-Conjugated Guanine Oligonucleotides for Recovery of Mutated G-Quadruplexes. <i>Molecules</i> , 2018, 23, 3228.	3.8	2
143	Bulky cations greatly increase the turnover of a native hammerhead ribozyme. <i>RSC Advances</i> , 2019, 9, 35820-35824.	3.6	2
144	Crowding Shifts the FMN Recognition Mechanism of Riboswitch Aptamer from Conformational Selection to Induced Fit. <i>Angewandte Chemie</i> , 2018, 130, 6984-6988.	2.0	1

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145	Replication Control of Human Telomere G-Quadruplex DNA by G-Quadruplex Ligands Dependent on Solution Environment. <i>Life</i> , 2022, 12, 553.	2.4	1
146	Applicability of the nearest-neighbour model for pseudoknot RNAs. <i>Chemical Communications</i> , 2022, 58, 5952-5955.	4.1	1
147	Enhancement of the Catalytic Activity of Hammerhead Ribozymes by Organic Cations. <i>ChemBioChem</i> , 2021, 22, 2721-2728.	2.6	0
148	é«~âœšãŠ»ãCEDNAã«ãŠã¼ã™ã½±éŸ¿. <i>Kagaku To Seibutsu</i> , 2020, 58, 477-485.	0.0	0