Naoki Sugimoto

List of Publications by Year
in descending order

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Version: 2024-02-01

148 papers	8,262 citations	50244 46 h-index	51562 86 g-index
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. Biochemistry, 1995, 34, 11211-11216.	1.2	660
2	Improved Thermodynamic Parameters and Helix Initiation Factor to Predict Stability of DNA Duplexes. Nucleic Acids Research, 1996, 24, 4501-4505.	6.5	453
3	Effects of Molecular Crowding on the Structures, Interactions, and Functions of Nucleic Acids. Chemical Reviews, 2014, 114, 2733-2758.	23.0	430
4	Hydration Regulates Thermodynamics of G-Quadruplex Formation under Molecular Crowding Conditions. Journal of the American Chemical Society, 2006, 128, 7957-7963.	6.6	301
5	Molecular crowding effects on structure and stability of DNA. Biochimie, 2008, 90, 1040-1051.	1.3	234
6	The Effect of Molecular Crowding with Nucleotide Length and Cosolute Structure on DNA Duplex Stability. Journal of the American Chemical Society, 2004, 126, 14330-14331.	6.6	209
7	Molecular crowding of the cosolutes induces an intramolecular i-motif structure of triplet repeat DNA oligomers at neutral pH. Chemical Communications, 2010, 46, 1299.	2.2	176
8	Molecular Crowding Regulates the Structural Switch of the DNA G-Quadruplexâ€. Biochemistry, 2002, 41, 15017-15024.	1.2	175
9	Duplex Dissociation of Telomere DNAs Induced by Molecular Crowding. Journal of the American Chemical Society, 2004, 126, 165-169.	6.6	169
10	Characterization of Structure and Stability of Long Telomeric DNA G-Quadruplexes. Journal of the American Chemical Society, 2006, 128, 15461-15468.	6.6	166
11	Free energy increments for hydrogen bonds in nucleic acid base pairs. Journal of the American Chemical Society, 1987, 109, 3783-3785.	6.6	158
12	DNA Logic Gates Based on Structural Polymorphism of Telomere DNA Molecules Responding to Chemical Input Signals. Angewandte Chemie - International Edition, 2006, 45, 7716-7719.	7.2	138
13	Thermodynamicsâ^'Structure Relationship of Single Mismatches in RNA/DNA Duplexes. Biochemistry, 2000, 39, 11270-11281.	1.2	137
14	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
15	Monomorphic RNA G-Quadruplex and Polymorphic DNA G-Quadruplex Structures Responding to Cellular Environmental Factors. Biochemistry, 2010, 49, 4554-4563.	1.2	130
16	Hydration of Watsonâ^'Crick Base Pairs and Dehydration of Hoogsteen Base Pairs Inducing Structural Polymorphism under Molecular Crowding Conditions. Journal of the American Chemical Society, 2009, 131, 3522-3531.	6.6	127
17	Suppression of Gene Expression by Gâ€Quadruplexes in Open Reading Frames Depends on Gâ€Quadruplex Stability. Angewandte Chemie - International Edition, 2013, 52, 5522-5526.	7.2	125
18	Sequence dependence for the energetics of dangling ends and terminal base pairs in ribonucleic acid. Biochemistry, 1987, 26, 4554-4558.	1.2	124

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19	Facilitation of RNA Enzyme Activity in the Molecular Crowding Media of Cosolutes. Journal of the American Chemical Society, 2009, 131, 16881-16888.	6.6	121
20	Structural Competition Involving G-Quadruplex DNA and Its Complementâ€. Biochemistry, 2003, 42, 11736-11744.	1.2	113
21	Phthalocyanines: a new class of G-quadruplex-ligands with many potential applications. Chemical Communications, 2012, 48, 6203.	2.2	106
22	Structure, stability and behaviour of nucleic acids in ionic liquids. Nucleic Acids Research, 2014, 42, 8831-8844.	6.5	104
23	Topological impact of noncanonical DNA structures on Klenow fragment of DNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9605-9610.	3.3	104
24	Energetics of internal GU mismatches in ribooligonucleotide helixes. Biochemistry, 1986, 25, 5755-5759.	1.2	101
25	Beads-on-a-String Structure of Long Telomeric DNAs under Molecular Crowding Conditions. Journal of the American Chemical Society, 2012, 134, 20060-20069.	6.6	96
26	Multiple and Cooperative Binding of Fluorescence Light-up Probe Thioflavin T with Human Telomere DNA G-Quadruplex. Biochemistry, 2013, 52, 5620-5628.	1.2	96
27	Aâ€“T Base Pairs are More Stable Than Gâ€“C Base Pairs in a Hydrated Ionic Liquid. Angewandte Chemie - International Edition, 2012, 51, 1416-1419.	7.2	94
28	Efficacy of Base-Modification on Target Binding of Small Molecule DNA Aptamers. Journal of the American Chemical Society, 2013, 135, 9412-9419.	6.6	92
29	Loop residues of thrombin-binding DNA aptamer impact G-quadruplex stability and thrombin binding. Biochimie, 2011, 93, 1231-1238.	1.3	81
30	Long RNA Dangling End Has Large Energetic Contribution to Duplex Stability. Journal of the American Chemical Society, 2002, 124, 10367-10372.	6.6	79
31	Destabilization of DNA G-Quadruplexes by Chemical Environment Changes during Tumor Progression Facilitates Transcription. Journal of the American Chemical Society, 2018, 140, 642-651.	6.6	79
32	Drastic Effect of a Single Base Difference between Human andTetrahymena Telomere Sequences on Their Structures under Molecular Crowding Conditions. Angewandte Chemie - International Edition, 2005, 44, 3740-3744.	7.2	78
33	Regulation of DNA nucleases by molecular crowding. Nucleic Acids Research, 2007, 35, 4086-4093.	6.5	75
34	Effect of molecular crowding on DNA polymerase activity. Biotechnology Journal, 2006, 1, 440-446.	1.8	70
35	The structural stability and catalytic activity of DNA and RNA oligonucleotides in the presence of organic solvents. Biophysical Reviews, 2016, 8, 11-23.	1.5	66
36	Stability of RNA quadruplex in open reading frame determines proteolysis of human estrogen receptor Î±. Nucleic Acids Research, 2013, 41, 6222-6231.	6.5	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. Journal of Physical Chemistry B, 2014, 118, 379-389.	1.2	63
38	Engineering exosome polymer hybrids by atom transfer radical polymerization. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	63
39	Stabilization of Three-Way Junctions of DNA under Molecular Crowding Conditions. Journal of the American Chemical Society, 2009, 131, 9268-9280.	6.6	61
40	Chemical biology of non-canonical structures of nucleic acids for therapeutic applications. Chemical Communications, 2020, 56, 2379-2390.	2.2	59
41	Effects of metal ions and cosolutes on G-quadruplex topology. Journal of Inorganic Biochemistry, 2017, 166, 190-198.	1.5	57
42	Anionic phthalocyanines targeting G-quadruplexes and inhibiting telomerase activity in the presence of excessive DNA duplexes. Chemical Communications, 2010, 46, 5740.	2.2	56
43	An anionic phthalocyanine decreases NRAS expression by breaking down its RNA G-quadruplex. Nature Communications, 2018, 9, 2271.	5.8	55
44	New Insights into Transcription Fidelity: Thermal Stability of Non-Canonical Structures in Template DNA Regulates Transcriptional Arrest, Pause, and Slippage. PLoS ONE, 2014, 9, e90580.	1.1	51
45	Recovery of the Formation and Function of Oxidized G-Quadruplexes by a Pyrene-Modified Guanine Tract. Journal of the American Chemical Society, 2018, 140, 5774-5783.	6.6	49
46	Hydration Changes upon DNA Folding Studied by Osmotic Stress Experiments. Biophysical Journal, 2012, 102, 2808-2817.	0.2	47
47	Roles of non-canonical structures of nucleic acids in cancer and neurodegenerative diseases. Nucleic Acids Research, 2021, 49, 7839-7855.	6.5	47
48	Sequence dependence for the energetics of terminal mismatches in ribooligonucleotides. Biochemistry, 1987, 26, 4559-4562.	1.2	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. Molecular BioSystems, 2008, 4, 579.	2.9	46
50	Effect of Pressure on Thermal Stability of G-Quadruplex DNA and Double-Stranded DNA Structures. Molecules, 2013, 18, 13297-13319.	1.7	46
51	Loop nucleotides impact the stability of intrastrand i-motif structures at neutral pH. Physical Chemistry Chemical Physics, 2015, 17, 16719-16722.	1.3	44
52	Pursuing origins of (poly)ethylene glycol-induced G-quadruplex structural modulations. Nucleic Acids Research, 2018, 46, 4301-4315.	6.5	44
53	Stability prediction of canonical and non-canonical structures of nucleic acids in various molecular environments and cells. Chemical Society Reviews, 2020, 49, 8439-8468.	18.7	44
54	DNA tetraplex structure formation from human telomeric repeat motif (TTAGGG):(CCCTAA) in nanocavity water pools of reverse micelles. Chemical Communications, 2012, 48, 4815.	2.2	43

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55	Model studies of the effects of intracellular crowding on nucleic acid interactions. Molecular BioSystems, 2017, 13, 32-41.	2.9	43
56	Comparable Stability of Hoogsteen and Watsonâ€“Crick Base Pairs in Ionic Liquid Choline Dihydrogen Phosphate. Scientific Reports, 2014, 4, 3593.	1.6	42
57	Unusual â^'1 Ribosomal Frameshift Caused by Stable RNA G-Quadruplex in Open Reading Frame. Analytical Chemistry, 2013, 85, 11435-11439.	3.2	41
58	Structural Polymorphism of Telomeric DNA Regulated by pH and Divalent Cation. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 203-221.	0.4	39
59	Mechanical insights into ribosomal progression overcoming RNA G-quadruplex from periodical translation suppression in cells. Scientific Reports, 2016, 6, 22719.	1.6	39
60	Nearest-neighbor parameters for predicting DNA duplex stability in diverse molecular crowding conditions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14194-14201.	3.3	37
61	Stabilization Factors Affecting Duplex Formation of Peptide Nucleic Acid with DNA. Biochemistry, 2001, 40, 8444-8451.	1.2	36
62	Novel One-Tube-One-Step Real-Time Methodology for Rapid Transcriptomic Biomarker Detection: Signal Amplification by Ternary Initiation Complexes. Analytical Chemistry, 2016, 88, 7137-7144.	3.2	36
63	i-Motifs are more stable than G-quadruplexes in a hydrated ionic liquid. Chemical Communications, 2015, 51, 6909-6912.	2.2	35
64	Molecular Crowding and Hydration Regulating of G-Quadruplex Formation. Topics in Current Chemistry, 2012, 330, 87-110.	4.0	34
65	Real-Time Monitoring of G-Quadruplex Formation during Transcription. Analytical Chemistry, 2016, 88, 1984-1989.	3.2	34
66	Study on effects of molecular crowding on G-quadruplex-ligand binding and ligand-mediated telomerase inhibition. Methods, 2013, 64, 19-27.	1.9	33
67	Tuning Riboswitchâ€Mediated Gene Regulation by Rational Control of Aptamer Ligand Binding Properties. Angewandte Chemie - International Edition, 2015, 54, 905-909.	7.2	33
68	Thrombin binding aptamer G-quadruplex stabilized by pyrene-modified nucleotides. Nucleic Acids Research, 2020, 48, 3975-3986.	6.5	32
69	tRNA Shifts the Gâ€quadruplexâ€“Hairpin Conformational Equilibrium in RNA towards the Hairpin Conformer. Angewandte Chemie - International Edition, 2016, 55, 14315-14319.	7.2	31
70	Chemical Modulation of DNA Replication along G-Quadruplex Based on Topology-Dependent Ligand Binding. Journal of the American Chemical Society, 2021, 143, 16458-16469.	6.6	31
71	Regulation of Telomerase Activity by the Thermodynamic Stability of a DNAâ‹…RNA Hybrid. Angewandte Chemie - International Edition, 2008, 47, 9034-9038.	7.2	30
72	Noncanonical Structures and Their Thermodynamics of DNA and RNA Under Molecular Crowding. International Review of Cell and Molecular Biology, 2014, 307, 205-273.	1.6	30

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73	Unexpected Position-Dependent Effects of Ribose G-Quartets in G-Quadruplexes. Journal of the American Chemical Society, 2017, 139, 7768-7779.	6.6	30
74	Validation of the nearest-neighbor model for Watsonâ€“Crick self-complementary DNA duplexes in molecular crowding condition. Nucleic Acids Research, 2019, 47, 3284-3294.	6.5	30
75	Characterization of Intracellular Crowding Environments with Topology-Based DNA Quadruplex Sensors. Analytical Chemistry, 2019, 91, 2586-2590.	3.2	30
76	Improved nearest-neighbor parameters for the stability of RNA/DNA hybrids under a physiological condition. Nucleic Acids Research, 2020, 48, 12042-12054.	6.5	30
77	Effect of Molecular Crowding on the Stability of RNA G-Quadruplexes with Various Numbers of Quartets and Lengths of Loops. Biochemistry, 2020, 59, 2640-2649.	1.2	30
78	Watsonâ€“Crick versus Hoogsteen Base Pairs: Chemical Strategy to Encode and Express Genetic Information in Life. Accounts of Chemical Research, 2021, 54, 2110-2120.	7.6	30
79	Conformational Flexibility Influences Degree of Hydration of Nucleic Acid Hybrids. Journal of Physical Chemistry B, 2011, 115, 13862-13872.	1.2	29
80	Conformational Dynamics of the RNA G-Quadruplex and its Effect on Translation Efficiency. Molecules, 2019, 24, 1613.	1.7	29
81	Effects of Polyethylene Glycol on DNA Duplex Stability at Different NaCl Concentrations. Bulletin of the Chemical Society of Japan, 2007, 80, 1987-1994.	2.0	28
82	Ruthenium Polypyridyl Complex Bound to a Unimolecular Chair-Form G-Quadruplex. Journal of the American Chemical Society, 2022, 144, 5956-5964.	6.6	28
83	RNA/DNA hybrid duplexes with identical nearest-neighbor base-pairs have identical stability. FEBS Letters, 1994, 354, 74-78.	1.3	27
84	Dimerization of Nucleic Acid Hairpins in the Conditions Caused by Neutral Cosolutes. Journal of Physical Chemistry B, 2012, 116, 7406-7415.	1.2	26
85	Translational halt during elongation caused by G-quadruplex formed by mRNA. Methods, 2013, 64, 73-78.	1.9	25
86	Preferential targeting cancer-related i-motif DNAs by the plant flavonol fisetin for theranostics applications. Scientific Reports, 2020, 10, 2504.	1.6	25
87	Structural effect of synthetic zwitterionic cosolutes on the stability of DNA duplexes. Tetrahedron, 2008, 64, 168-174.	1.0	24
88	Effects of trimethylamine N-oxide and urea on DNA duplex and G-quadruplex. Science and Technology of Advanced Materials, 2016, 17, 753-759.	2.8	24
89	Newly characterized interaction stabilizes DNA structure: oligoethylene glycols stabilize G-quadruplexes CHâ€“Ï€ interactions. Nucleic Acids Research, 2017, 45, 7021-7030.	6.5	23
90	Crowding Shifts the FMN Recognition Mechanism of Riboswitch Aptamer from Conformational Selection to Induced Fit. Angewandte Chemie - International Edition, 2018, 57, 6868-6872.	7.2	22

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91	Quantitative Analyses of Nucleic Acid Stability Under the Molecular Crowding Condition Induced by Cosolutes. Current Protocols in Nucleic Acid Chemistry, 2013, 53, Unit7.19.	0.5	20
92	Volumetric contributions of loop regions of G-quadruplex DNA to the formation of the tertiary structure. Biophysical Chemistry, 2017, 231, 146-154.	1.5	19
93	Chemical Biology of Double Helical and Non-Double Helical Nucleic Acids: â€œTo B or Not To B, That Is the Questionâ€• Bulletin of the Chemical Society of Japan, 2021, 94, 1970-1998.	2.0	19
94	Thermodynamic stability of Hoogsteen and Watsonâ€“Crick base pairs in the presence of histone H3-mimicking peptide. Chemical Communications, 2011, 47, 2790.	2.2	18
95	Volumetric analysis of formation of the complex of G-quadruplex DNA with hemin using high pressure. Journal of Inorganic Biochemistry, 2017, 166, 199-207.	1.5	18
96	The Effects of Molecular Crowding on the Structure and Stability of G-Quadruplexes with an Abasic Site. Journal of Nucleic Acids, 2011, 2011, 1-9.	0.8	17
97	RNA G-Quadruplexes Facilitate RNA Accumulation in G-Rich Repeat Expansions. Biochemistry, 2020, 59, 1972-1980.	1.2	16
98	Dehydration from conserved stem regions is fundamental for ligand-dependent conformational transition of the adenine-specific riboswitch. Chemical Communications, 2012, 48, 9693.	2.2	15
99	Control of stability and structure of nucleic acids using cosolutes. Methods, 2014, 67, 151-158.	1.9	15
100	New Insights into the Functions of Nucleic Acids Controlled by Cellular Microenvironments. Topics in Current Chemistry, 2021, 379, 17.	3.0	15
101	Rational Design and Tuning of Functional RNA Switch to Control an Allosteric Intermolecular Interaction. Analytical Chemistry, 2015, 87, 7628-7635.	3.2	14
102	Synchronized Translation for Detection of Temporal Stalling of Ribosome during Single-Turnover Translation. Analytical Chemistry, 2012, 84, 857-861.	3.2	13
103	Drastic Stabilization of Parallel DNA Hybridizations by a Polylysine Combâ€Type Copolymer with Hydrophilic Graft Chain. ChemMedChem, 2014, 9, 2156-2163.	1.6	13
104	Thermal Stability of RNA Structures with Bulky Cations in Mixed Aqueous Solutions. Biophysical Journal, 2016, 111, 1350-1360.	0.2	13
105	Conformational Dynamics of mRNA in Gene Expression as New Pharmaceutical Target. Chemical Record, 2017, 17, 817-832.	2.9	13
106	Control of guanine-rich DNA secondary structures depending on the protease activity using a designed PNA peptide. Organic and Biomolecular Chemistry, 2015, 13, 2022-2025.	1.5	12
107	Alkylating probes for the G-quadruplex structure and evaluation of the properties of the alkylated G-quadruplex DNA. Organic and Biomolecular Chemistry, 2018, 16, 1436-1441.	1.5	12
108	Molecular crowding induces primer extension by RNA polymerase through base stacking beyond Watsonâ€“Crick rules. RSC Advances, 2020, 10, 33052-33058.	1.7	12

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109	Sole and Stable RNA Duplexes of G-Rich Sequences Located in the 5â€²-Untranslated Region of Protooncogenes. Biochemistry, 2010, 49, 7190-7201.	1.2	11
110	Specific Light-Up System for Protein and Metabolite Targets Triggered by Initiation Complex Formation. Scientific Reports, 2017, 7, 15191.	1.6	11
111	Bisubstrate Function of RNA Polymerases Triggered by Molecular Crowding Conditions. Biochemistry, 2019, 58, 1081-1093.	1.2	11
112	Transcriptome screening followed by integrated physicochemical and structural analyses for investigating RNA-mediated berberine activity. Nucleic Acids Research, 2021, 49, 8449-8461.	6.5	11
113	Gene Regulation System with an Artificial RNA Switch Operating in Human Cells. ChemBioChem, 2011, 12, 1174-1178.	1.3	10
114	Key Tertiary Interactions in FMN Riboswitch Aptamers Required for Ligand Binding. Bulletin of the Chemical Society of Japan, 2015, 88, 946-948.	2.0	10
115	Gâ€Quadruplexes with Tetra(ethylene glycol)â€Modified Deoxythymidines are Resistant to Nucleases and Inhibit HIVâ€1 Reverse Transcriptase. ChemBioChem, 2016, 17, 1399-1402.	1.3	10
116	Stabilization of DNA Loop Structures by Large Cations. Journal of Physical Chemistry B, 2019, 123, 7687-7694.	1.2	9
117	RNAâ€Capturing Microsphere Particles (Râ€CAMPs) for Optimization of Functional Aptamers. Small, 2019, 15, e1805062.	5.2	9
118	Drastic stability change of X-X mismatch in d(CXG) trinucleotide repeat disorders under molecular crowding condition. Biochemical and Biophysical Research Communications, 2018, 496, 601-607.	1.0	8
119	Effect of Potassium Concentration on Triplex Stability under Molecular Crowding Conditions. Molecules, 2020, 25, 387.	1.7	8
120	Selection of RNAs for Constructing â€œLighting-UPâ€•Biomolecular Switches in Response to Specific Small Molecules. PLoS ONE, 2013, 8, e60222.	1.1	7
121	Co-Transcriptional Molecular Assembly Results in a Kinetically Controlled Irreversible RNA Conformational Switch. Analytical Chemistry, 2018, 90, 11193-11197.	3.2	7
122	In situ condensation of an anti-cancer drug into fibrin gel enabling effective inhibition of tumor cell growth. Chemical Communications, 2019, 55, 11679-11682.	2.2	7
123	C-Rich Sequence in a Non-Template DNA Strand Regulates Structure Change of G-Quadruplex in a Template Strand during Transcription. Bulletin of the Chemical Society of Japan, 2019, 92, 572-577.	2.0	7
124	Combined Effects of Methylated Cytosine and Molecular Crowding on the Thermodynamic Stability of DNA Duplexes. International Journal of Molecular Sciences, 2021, 22, 947.	1.8	7
125	Effect of DNA modifications on the transition between canonical and non-canonical DNA structures in CpG islands during senescence. RSC Advances, 2021, 11, 37205-37217.	1.7	7
126	Organelle-mimicking liposome dissociates G-quadruplexes and facilitates transcription. Nucleic Acids Research, 2014, 42, 12949-12959.	6.5	6

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127	Modulation of Ribozyme and Deoxyribozyme Activities Using Tetraalkylammonium Ions. ChemPhysChem, 2017, 18, 3614-3619.	1.0	6
128	Signaling Aptamer Optimization through Selection Using RNA-Capturing Microsphere Particles. Analytical Chemistry, 2020, 92, 7955-7963.	3.2	6
129	Lighting Up of Thiazole Orange on G-Quadruplex DNA by High Pressure. ACS Omega, 2019, 4, 4325-4329.	1.6	5
130	Effect of Molecular Crowding on DNA Polymerase Reactions along Unnatural DNA Templates. Molecules, 2020, 25, 4120.	1.7	5
131	New Modified Deoxythymine with Dibranched Tetraethylene Glycol Stabilizes G-Quadruplex Structures. Molecules, 2020, 25, 705.	1.7	5
132	Dangling Ends Perturb the Stability of RNA Duplexes Responsive to Surrounding Conditions. ChemMedChem, 2014, 9, 2150-2155.	1.6	4
133	tRNA Shifts the Gâ€quadruplexâ€“Hairpin Conformational Equilibrium in RNA towards the Hairpin Conformer. Angewandte Chemie, 2016, 128, 14527-14531.	1.6	4
134	Quantitative Analysis of Stall of Replicating DNA Polymerase by G-Quadruplex Formation. Methods in Molecular Biology, 2019, 2035, 257-274.	0.4	4
135	Effects of Modifying Thioflavin T at the N3-Position on Its G4 Binding and Fluorescence Emission. Molecules, 2020, 25, 4936.	1.7	4
136	Hydroxyl groups in cosolutes regulate the G-quadruplex topology of telomeric DNA. Biochemical and Biophysical Research Communications, 2020, 525, 177-183.	1.0	4
137	Dielectricity of a molecularly crowded solution accelerates NTP misincorporation during RNA-dependent RNA polymerization by T7 RNA polymerase. Scientific Reports, 2022, 12, 1149.	1.6	4
138	Intramolecular G-quadruplex-hairpin loop structure competition of a GC-rich exon region in the TMPRSS2 gene. Chemical Communications, 2021, 58, 48-51.	2.2	4
139	Volumetric Strategy for Quantitatively Elucidating a Local Hydration Network around a G-Quadruplex. Analytical Chemistry, 2022, 94, 7400-7407.	3.2	4
140	Aptamerâ€Based Universal Fluorometric Sensors Based on Allosteric Modulation of RNAâ€“Peptide Interactions. ChemMedChem, 2014, 9, 2045-2048.	1.6	3
141	Quantitative Analysis of Nucleic Acid Stability with Ligands Under High Pressure to Design Novel Drugs Targeting Gâ€Quadruplexes. Current Protocols in Nucleic Acid Chemistry, 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. Molecules, 2018, 23, 3228.	1.7	2
143	Bulky cations greatly increase the turnover of a native hammerhead ribozyme. RSC Advances, 2019, 9, 35820-35824.	1.7	2
144	Crowding Shifts the FMN Recognition Mechanism of Riboswitch Aptamer from Conformational Selection to Induced Fit. Angewandte Chemie, 2018, 130, 6984-6988.	1.6	1

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145	Replication Control of Human Telomere G-Quadruplex DNA by G-Quadruplex Ligands Dependent on Solution Environment. Life, 2022, 12, 553.	1.1	1
146	Applicability of the nearest-neighbour model for pseudoknot RNAs. Chemical Communications, 2022, 58, 5952-5955.	2.2	1
147	Enhancement of the Catalytic Activity of Hammerhead Ribozymes by Organic Cations. ChemBioChem, 2021, 22, 2721-2728.	1.3	0
148	é«˜åœ§åŠ›ãŒDNAã«åŠã¼ã™å½±éŸ¿. Kagaku To Seibutsu, 2020, 58, 477-485.	0.0	0