Elzbieta Kierzek

List of Publications by Year
in descending order

61 papers	2,145 citations	257357 24 h-index	243529 44 g-index
65 all docs	65 docs citations	65 times ranked	2481 citing authors

#	Article	IF	Citations
1	Microarrays for identifying binding sites and probing structure of RNAs. Nucleic Acids Research, 2015, 43, 1-12.	6.5	250
2	The contribution of pseudouridine to stabilities and structure of RNAs. Nucleic Acids Research, 2014, 42, 3492-3501.	6.5	177
3	The thermodynamic stability of RNA duplexes and hairpins containing N6-alkyladenosines and 2-methylthio-N6-alkyladenosines. Nucleic Acids Research, 2003, 31, 4472-4480.	6.5	168
4	Exploring the Energy Landscape of a Small RNA Hairpin. Journal of the American Chemical Society, 2006, 128, 1523-1530.	6.6	129
5	Structural Diversity of Triplet Repeat RNAs. Journal of Biological Chemistry, 2010, 285, 12755-12764.	1.6	110
6	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
7	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
8	Recognition of RNA duplexes by chemically modified triplex-forming oligonucleotides. Nucleic Acids Research, 2013, 41, 6664-6673.	6.5	56
9	The synthesis of oligoribonucleotides containing N6-alkyladenosines and 2-methylthio-N6-alkyladenosines via post-synthetic modification of precursor oligomers. Nucleic Acids Research, 2003, 31, 4461-4471.	6.5	48
10	Thermodynamic Stability of RNA Structures Formed by CNG Trinucleotide Repeats. Implication for Prediction of RNA Structureâ€. Biochemistry, 2005, 44, 10873-10882.	1.2	48
11	Interplay of LNA and 2â€²-<i>O</i>-Methyl RNA in the Structure and Thermodynamics of RNA Hybrid Systems: A Molecular Dynamics Study Using the Revised AMBER Force Field and Comparison with Experimental Results. Journal of Physical Chemistry B, 2014, 118, 14177-14187.	1.2	46
12	A Short Chemically Modified dsRNA-Binding PNA (dbPNA) Inhibits Influenza Viral Replication by Targeting Viral RNA Panhandle Structure. Bioconjugate Chemistry, 2019, 30, 931-943.	1.8	44
13	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
14	Facilitating RNA Structure Prediction with Microarraysâ€. Biochemistry, 2006, 45, 581-593.	1.2	42
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	Antisense Oligonucleotides Targeting Influenza A Segment 8 Genomic RNA Inhibit Viral Replication. Nucleic Acid Therapeutics, 2016, 26, 277-285.	2.0	34
21	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
22	Self-Folding of Naked Segment 8 Genomic RNA of Influenza A Virus. PLoS ONE, 2016, 11, e0148281.	1.1	31
23	Secondary structure prediction for RNA sequences including N6-methyladenosine. Nature Communications, 2022, 13, 1271.	5.8	27
24	Secondary Structure of a Conserved Domain in the Intron of Influenza A NS1 mRNA. PLoS ONE, 2013, 8, e70615.	1.1	26
25	Secondary structure of the segment 5 genomic RNA of influenza A virus and its application for designing antisense oligonucleotides. Scientific Reports, 2019, 9, 3801.	1.6	26
26	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
27	LNA-Modified Primers Drastically Improve Hybridization to Target RNA and Reverse Transcription. Biochemistry, 2009, 48, 514-516.	1.2	25
28	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
29	Secondary Structure of a Conserved Domain in an Intron of Influenza A M1 mRNA. Biochemistry, 2014, 53, 5236-5248.	1.2	24
30	Binding of Short Oligonucleotides to RNA: Studies of the Binding of Common RNA Structural Motifs to Isoenergetic Microarrays. Biochemistry, 2009, 48, 11344-11356.	1.2	23
31	Secondary structure model of the naked segment 7 influenza A virus genomic RNA. Biochemical Journal, 2016, 473, 4327-4348.	1.7	23
32	RNA Secondary Structure Motifs of the Influenza A Virus as Targets for siRNA-Mediated RNA Interference. Molecular Therapy - Nucleic Acids, 2020, 19, 627-642.	2.3	23
33	The thermal stability of RNA duplexes containing modified base pairs placed at internal and terminal positions of the oligoribonucleotides. Biophysical Chemistry, 2002, 97, 233-241.	1.5	22
34	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
35	Structural determinants for alternative splicing regulation of the MAPT pre-mRNA. RNA Biology, 2015, 12, 330-342.	1.5	21
36	RNA Secondary Structure as a First Step for Rational Design of the Oligonucleotides towards Inhibition of Influenza A Virus Replication. Pathogens, 2020, 9, 925.	1.2	17

#	Article	IF	Citations
37	A Conserved Secondary Structural Element in the Coding Region of the Influenza A Virus Nucleoprotein (NP) mRNA Is Important for the Regulation of Viral Proliferation. PLoS ONE, 2015, 10, e0141132.	1.1	15
38	Studying the influence of stem composition in pH-sensitive molecular beacons onto their sensing properties. Analytica Chimica Acta, 2017, 990, 157-167.	2.6	14
39	Anti-Influenza Strategies Based on Nanoparticle Applications. Pathogens, 2020, 9, 1020.	1.2	14
40	Influenza virus segment 5 (+)RNA - secondary structure and new targets for antiviral strategies. Scientific Reports, 2017, 7, 15041.	1.6	13
41	Isoenergetic Microarrays To Study the Structure and Interactions of DsrA and OxyS RNAs in Two- and Three-Component Complexes. Biochemistry, 2011, 50, 7647-7665.	1.2	12
42	The influence of various modified nucleotides placed as 3â€²-dangling end on thermal stability of RNA duplexes. Biophysical Chemistry, 2002, 97, 243-249.	1.5	11
43	Structural Aspects of the Antiparallel and Parallel Duplexes Formed by DNA, 2â€™-O-Methyl RNA and RNA Oligonucleotides. PLoS ONE, 2015, 10, e0143354.	1.1	11
44	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
45	A Tandem Oligonucleotide Approach for SNP-Selective RNA Degradation Using Modified Antisense Oligonucleotides. PLoS ONE, 2015, 10, e0142139.	1.1	10
46	Modified RNA triplexes: Thermodynamics, structure and biological potential. Scientific Reports, 2018, 8, 13023.	1.6	10
47	TMV mutants with poly(A) tracts of different lengths demonstrate structural variations in 3â€²UTR affecting viral RNAs accumulation and symptom expression. Scientific Reports, 2015, 5, 18412.	1.6	9
48	Universal and strain specific structure features of segmentÂ8Âgenomic RNA of influenza A virusâ€"application ofÂ4-thiouridine photocrosslinking. Journal of Biological Chemistry, 2021, 297, 101245.	1.6	9
49	Organization of the Influenza A Virus Genomic RNA in the Viral Replication Cycleâ€"Structure, Interactions, and Implications for the Emergence of New Strains. Pathogens, 2020, 9, 951.	1.2	8
50	A Test and Refinement of Folding Free Energy Nearest Neighbor Parameters for RNA Including N6-Methyladenosine. Journal of Molecular Biology, 2022, 434, 167632.	2.0	8
51	Influence of N6-isopentenyladenosine (i6A) on thermal stability of RNA duplexes. Biophysical Chemistry, 2001, 91, 135-140.	1.5	6
52	Isoenergetic microarray mapping - the advantages of this method in studying the structure of Saccharomyces cerevisiae tRNAPhe. Nucleic Acids Symposium Series, 2008, 52, 219-220.	0.3	6
53	Isoenergetic microarray mapping reveals differences in structure between tRNAiMet and tRNAmMet from Lupinus luteus. Nucleic Acids Symposium Series, 2008, 52, 215-216.	0.3	4
54	Conserved Structural Motifs of Two Distant IAV Subtypes in Genomic Segment 5 RNA. Viruses, 2021, 13, 525.	1.5	4

#	Article	IF	Citations
55	Conscious uncoupling of riboswitch functions. Journal of Biological Chemistry, 2020, 295, 2568-2569.	1.6	3
56	Secondary Structure of Subgenomic RNA M of SARS-CoV-2. Viruses, 2022, 14, 322.	1.5	3
57	Secondary Structure of Influenza A Virus Genomic Segment 8 RNA Folded in a Cellular Environment. International Journal of Molecular Sciences, 2022, 23, 2452.	1.8	3
58	Structural variants and modifications of hammerhead ribozymes targeting influenza A virus conserved structural motifs. Molecular Therapy - Nucleic Acids, 2022, 29, 64-74.	2.3	3
59	Synthesis of Oligoribonucleotides Containing N 6 â€Alkyladenosine and 2â€Methylthioâ€•N 6 â€Alkyladenosine. Current Protocols in Nucleic Acid Chemistry, 2004, 17, Unit 4.23.	0.5	1
60	Nuclear Magnetic Resonance reveals a two hairpin equilibrium near the 3'-splice site of Influenza A segment 7 mRNA that can be shifted by oligonucleotides. Rna, 2022, , rna.078951.121.	1.6	1
61	The Spontaneous Rearrangement of 2,4-Dinitrophenyl Substituent in Ribonucleosides Under Neutral Conditions. Nucleosides, Nucleotides and Nucleic Acids, 2010, 29, 684-697.	0.4	0