

Anna Pasternak

List of Publications by Year in descending order

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papers

922
citations

567144

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g-index

33
all docs

33
docs citations

33
times ranked

970
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved thrombin binding aptamer by incorporation of a single unlocked nucleic acid monomer. <i>Nucleic Acids Research</i> , 2011, 39, 1155-1164.	6.5	155
2	G-Quadruplex-Forming Aptamersâ€™ Characteristics, Applications, and Perspectives. <i>Molecules</i> , 2019, 24, 3781.	1.7	130
3	UNA (unlocked nucleic acid): A flexible RNA mimic that allows engineering of nucleic acid duplex stability. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 5420-5425.	1.4	112
4	Unlocked nucleic acid â€“ an RNA modification with broad potential. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3591.	1.5	58
5	Thermodynamics of RNA duplexes modified with unlocked nucleic acid nucleotides. <i>Nucleic Acids Research</i> , 2010, 38, 6697-6706.	6.5	49
6	Contributions of Stacking, Preorganization, and Hydrogen Bonding to the Thermodynamic Stability of Duplexes between RNA and 2â€™-O-Methyl RNA with Locked Nucleic Acids. <i>Biochemistry</i> , 2009, 48, 4377-4387.	1.2	43
7	Thermodynamic and biological evaluation of a thrombin binding aptamer modified with several unlocked nucleic acid (UNA) monomers and a 2â€™-C-piperazino-UNA monomer. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 4739-4745.	1.4	43
8	Thermodynamic, Anticoagulant, and Antiproliferative Properties of Thrombin Binding Aptamer Containing Novel UNA Derivative. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 10, 304-316.	2.3	41
9	A chemical synthesis of LNA-2,6-diaminopurine riboside, and the influence of 2â€™-O-methyl-2,6-diaminopurine and LNA-2,6-diaminopurine ribosides on the thermodynamic properties of 2â€™-O-methyl RNA/RNA heteroduplexes. <i>Nucleic Acids Research</i> , 2007, 35, 4055-4063.	6.5	34
10	Modulation of i-motif thermodynamic stability by the introduction of UNA (unlocked nucleic acid) monomers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 752-755.	1.0	33
11	Improved RE31 Analogues Containing Modified Nucleic Acid Monomers: Thermodynamic, Structural, and Biological Effects. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2499-2507.	2.9	26
12	The Thermodynamics of 3â€™-Terminal Pyrene and Guanosine for the Design of Isoenergetic 2â€™-O-Methyl-RNA-LNA Chimeric Oligonucleotide Probes of RNA Structure. <i>Biochemistry</i> , 2008, 47, 1249-1258.	1.2	25
13	Pyreneâ€™Modified Unlocked Nucleic Acids: Synthesis, Thermodynamic Studies, and Fluorescent Properties. <i>ChemBioChem</i> , 2012, 13, 590-601.	1.3	23
14	Thermodynamic Features of Structural Motifs Formed by Î²-L-RNA. <i>PLoS ONE</i> , 2016, 11, e0149478.	1.1	20
15	Unlocked nucleic acids: implications of increased conformational flexibility for RNA/DNA triplex formation. <i>Biochemical Journal</i> , 2014, 464, 203-211.	1.7	19
16	A systematic study on the influence of thermodynamic asymmetry of 5â€™-ends of siRNA duplexes in relation to their silencing potency. <i>Scientific Reports</i> , 2019, 9, 2477.	1.6	13
17	G4 Mattersâ€™The Influence of G-Quadruplex Structural Elements on the Antiproliferative Properties of G-Rich Oligonucleotides. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4941.	1.8	13
18	Beyond G-Quadruplexesâ€™The Effect of Junction with Additional Structural Motifs on Aptamers Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9948.	1.8	12

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19	Photoligation of self-assembled DNA constructs containing anthracene-functionalized 2'-amino-LNA monomers. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 7407-7415.	1.4	11
20	Novel isoguanine derivative of unlocked nucleic acid—Investigations of thermodynamics and biological potential of modified thrombin binding aptamer. <i>PLoS ONE</i> , 2018, 13, e0197835.	1.1	10
21	Synthesis and Structural Characterization of 2'-Fluoro-2'-RNA-Modified Oligonucleotides. <i>ChemBioChem</i> , 2011, 12, 1904-1911.	1.3	9
22	Thermodynamic, structural and fluorescent characteristics of DNA hairpins containing functionalized pyrrolo-2'-deoxycytidines. <i>Bioorganic Chemistry</i> , 2017, 71, 294-298.	2.0	7
23	Gapmer Antisense Oligonucleotides Containing 2',3'-Dideoxy-2'-fluoro-3'-C-hydroxymethyl-2'-d-Clyxofuran Nucleotides Display Site-Specific RNase-H Cleavage and Induce Gene Silencing. <i>Chemistry - A European Journal</i> , 2020, 26, 1368-1379.	1.7	7
24	Hybridization Properties of RNA Containing 8-Methoxyguanosine and 8-Benzyloxyguanosine. <i>PLoS ONE</i> , 2015, 10, e0137674.	1.1	7
25	Watson-Crick hydrogen bonding of unlocked nucleic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5064-5066.	1.0	6
26	A Comprehensive Analysis of the Thrombin Binding Aptamer Containing Functionalized Pyrrolo-2'-deoxycytidines. <i>Pharmaceuticals</i> , 2021, 14, 1326.	1.7	5
27	Synthesis and hybridization properties of oligonucleotide analogues with novel acyclic triazole internucleotide linkages. <i>Bioorganic Chemistry</i> , 2017, 72, 161-167.	2.0	3
28	Studies on Transcriptional Incorporation of 5'-N-Triphosphates of 5'-Amino-5'-Deoxyribonucleosides. <i>PLoS ONE</i> , 2016, 11, e0148282.	1.1	3
29	A locked derivative of 8-aza-7-deazaadenosine. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008, 64, o467-o470.	0.4	2
30	Contribution of 3' and 3' overhangs to the thermodynamic stability of model siRNA duplexes. <i>Biophysical Chemistry</i> , 2019, 246, 35-39.	1.5	2
31	Evaluation of Gene Expression Knock-Down by Chemically and Structurally Modified Gapmer Antisense Oligonucleotides. <i>ChemBioChem</i> , 0, , .	1.3	1
32	A Structural Potential of Rare Trinucleotide Repeat Tracts in RNA. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5850.	1.8	0