

Brooke A Anderson

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

487
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687363

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Towards next generation antisense oligonucleotides: mesylphosphoramidate modification improves therapeutic index and duration of effect of gapmer antisense oligonucleotides. <i>Nucleic Acids Research</i> , 2021, 49, 9026-9041.	14.5	61
2	Origins of the Increased Affinity of Phosphorothioate-Modified Therapeutic Nucleic Acids for Proteins. <i>Journal of the American Chemical Society</i> , 2020, 142, 7456-7468.	13.7	56
3	Optimization of Replication, Transcription, and Translation in a Semi-Synthetic Organism. <i>Journal of the American Chemical Society</i> , 2019, 141, 10644-10653.	13.7	52
4	C5-Functionalized DNA, LNA, and LNA: Positional Control of Polarity-Sensitive Fluorophores Leads to Improved SNP Typing. <i>Chemistry - A European Journal</i> , 2011, 17, 3157-3165.	3.3	33
5	High-Affinity DNA Targeting Using Readily Accessible Mimics of N2-Functionalized 2-Amino-L-LNA. <i>Journal of Organic Chemistry</i> , 2011, 76, 7119-7131.	3.2	32
6	Identification and Characterization of Second-Generation Invader Locked Nucleic Acids (LNAs) for Mixed-Sequence Recognition of Double-Stranded DNA. <i>Journal of Organic Chemistry</i> , 2013, 78, 9560-9570.	3.2	32
7	Synthesis and Biophysical Properties of C5-Functionalized LNA (Locked Nucleic Acid). <i>Journal of Organic Chemistry</i> , 2014, 79, 5047-5061.	3.2	27
8	Next-generation bis-locked nucleic acids with stacking linker and 2-glycylamino-LNA show enhanced DNA invasion into supercoiled duplexes. <i>Nucleic Acids Research</i> , 2016, 44, 2007-2019.	14.5	24
9	Invader probes: harnessing the energy of intercalation to facilitate recognition of chromosomal DNA for diagnostic applications. <i>Chemical Science</i> , 2015, 6, 5006-5015.	7.4	22
10	Optimized DNA-targeting using triplex forming C5-alkynyl functionalized LNA. <i>Chemical Communications</i> , 2009, , 6756.	4.1	19
11	Nanopore Sequencing of an Expanded Genetic Alphabet Reveals High-Fidelity Replication of a Predominantly Hydrophobic Unnatural Base Pair. <i>Journal of the American Chemical Society</i> , 2020, 142, 2110-2114.	13.7	19
12	C5-Functionalized LNA: Unparalleled Hybridization Properties and Enzymatic Stability. <i>ChemBioChem</i> , 2009, 10, 2740-2743.	2.6	18
13	Recognition of Double-Stranded DNA Using Energetically Activated Duplexes Modified with N2-Pyrene-, Perylene-, or Coronene-Functionalized 2-N-Methyl-2-amino-DNA Monomers. <i>Journal of Organic Chemistry</i> , 2015, 80, 5395-5406.	3.2	14
14	Synthesis and Characterization of Oligodeoxyribonucleotides Modified with 2-Amino-L-LNA Adenine Monomers: High-Affinity Targeting of Single-Stranded DNA. <i>Journal of Organic Chemistry</i> , 2013, 78, 12690-12702.	3.2	12
15	C5-Amino acid functionalized LNA: positively poised for antisense applications. <i>Chemical Communications</i> , 2014, 50, 9007-9009.	4.1	12
16	Heterogeneous Pyrophosphate-Linked DNA-Oligonucleotides: Aversion to DNA but Affinity for RNA. <i>Chemistry - A European Journal</i> , 2018, 24, 6837-6842.	3.3	12
17	Merging Two Strategies for Mixed-Sequence Recognition of Double-Stranded DNA: Pseudocomplementary Invader Probes. <i>Journal of Organic Chemistry</i> , 2016, 81, 3335-3346.	3.2	11
18	The Unexpected Base-Pairing Behavior of Cyanuric Acid in RNA and Ribose versus Cyanuric Acid Induced Helicene Assembly of Nucleic Acids: Implications for the Pre-RNA Paradigm. <i>Chemistry - A European Journal</i> , 2021, 27, 4033-4042.	3.3	11

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19	C5-Alkynyl-Functionalized \hat{I} -LNA: Synthesis, Thermal Denaturation Experiments and Enzymatic Stability. <i>Journal of Organic Chemistry</i> , 2014, 79, 5062-5073.	3.2	7
20	Mixed-Sequence Recognition of Double-Stranded DNA Using Enzymatically Stable Phosphorothioate Invader Probes. <i>Molecules</i> , 2015, 20, 13780-13793.	3.8	6
21	Synthesis and characterization of oligodeoxyribonucleotides modified with 2 \hat{C} -thio-2 \hat{C} -deoxy-2 \hat{C} -S-(pyren-1-yl)methyluridine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3999-4004.	2.2	5
22	Synthesis of Fluorescence Turn \hat{O} n DNA Hybridization Probe Using the DEA tC 2 \hat{C} - \hat{D} eoxycytidine Analog. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2018, 75, e59.	0.5	2
23	Frontispiece: The Unexpected Base \hat{P} airing Behavior of Cyanuric Acid in RNA and Ribose versus Cyanuric Acid Induced Helicene Assembly of Nucleic Acids: Implications for the Pre \hat{R} NA Paradigm. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0