

Roger Stromberg

List of Publications by Year in descending order

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218381

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docs citations

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times ranked

1910
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleoside H-phosphonates. III. Chemical synthesis of oligodeoxyribonucleotides by the hydrogenphosphonate approach. <i>Tetrahedron Letters</i> , 1986, 27, 4051-4054.	0.7	179
2	Nucleoside H-phosphonates. IV. Automated solid phase synthesis of oligoribonucleotides by the hydrogenphosphonate approach. <i>Tetrahedron Letters</i> , 1986, 27, 4055-4058.	0.7	111
3	Removal of t-butyldimethylsilyl protection in RNA-synthesis. Triethylamine trihydrofluoride (TEA, 3HF) is a more reliable alternative to tetrabutylammonium fluoride (TBAF). <i>Nucleic Acids Research</i> , 1994, 22, 2430-2431.	6.5	110
4	Biological Activity and Biotechnological Aspects of Peptide Nucleic Acid. <i>Advances in Genetics</i> , 2006, 56, 1-51.	0.8	97
5	Amyloid- β -Induced Action Potential Desynchronization and Degradation of Hippocampal Gamma Oscillations Is Prevented by Interference with Peptide Conformation Change and Aggregation. <i>Journal of Neuroscience</i> , 2014, 34, 11416-11425.	1.7	91
6	Studies on the t-butyldimethylsilyl group as 2'-O-protection in oligoribonucleotide synthesis via the H-phosphonate approach. <i>Nucleic Acids Research</i> , 1988, 16, 9285-9298.	6.5	81
7	Phenylbutyrate Counteracts Shigella Mediated Downregulation of Cathelicidin in Rabbit Lung and Intestinal Epithelia: A Potential Therapeutic Strategy. <i>PLoS ONE</i> , 2011, 6, e20637.	1.1	78
8	Lactose in Human Breast Milk an Inducer of Innate Immunity with Implications for a Role in Intestinal Homeostasis. <i>PLoS ONE</i> , 2013, 8, e53876.	1.1	76
9	Compelling evidence for a stepwise mechanism of the alkaline cyclisation of uridine 3'-phosphate esters. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2165-2167.	1.5	65
10	Synthesis and Properties of RNA Analogues Having Amides as Interuridine Linkages at Selected Positions. <i>Journal of the American Chemical Society</i> , 2003, 125, 12125-12136.	6.6	62
11	PNAzymes That Are Artificial RNA Restriction Enzymes. <i>Journal of the American Chemical Society</i> , 2010, 132, 8984-8990.	6.6	61
12	Hydrolytic Reactions of the Diastereomeric Phosphoromonothioate Analogs of Uridyl(3',5')uridine: Kinetics and Mechanisms for Desulfurization, Phosphoester Hydrolysis, and Transesterification to the 2',5'-Isomers. <i>Journal of Organic Chemistry</i> , 1995, 60, 5620-5627.	1.7	59
13	The mechanism of the metal ion promoted cleavage of RNA phosphodiester bonds involves a general acid catalysis by the metal aquo ion on the departure of the leaving group. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 1619-1626.	0.9	52
14	Oligonucleotide based artificial nuclease (OBAN) systems. Bulge size dependence and positioning of catalytic group in cleavage of RNA-bulges. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 1461-1465.	1.5	48
15	Synthesis of new OBAN's and further studies on positioning of the catalytic group. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1901-1907.	1.5	43
16	An approach towards the synthesis of oligomers containing a N-2-hydroxyethyl-aminomethylphosphonate backbone: A novel PNA analogue. <i>Tetrahedron Letters</i> , 1996, 37, 7857-7860.	0.7	42
17	A Method for Solid-Phase Synthesis of Oligonucleotide 5'-Peptide-Conjugates Using Acid-Labile β -Amino Protections. <i>Journal of the American Chemical Society</i> , 2004, 126, 14029-14035.	6.6	41
18	Entinostat up-regulates the CAMP gene encoding LL-37 via activation of STAT3 and HIF-1 transcription factors. <i>Scientific Reports</i> , 2016, 6, 33274.	1.6	38

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19	PNA based artificial nucleases displaying catalysis with turnover in the cleavage of a leukemia related RNA model. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3837.	1.5	37
20	An activated triple bond linker enables "click"™ attachment of peptides to oligonucleotides on solid support. <i>Nucleic Acids Research</i> , 2011, 39, 9047-9059.	6.5	34
21	Intramolecular transesterification in thiophosphate-analogues of an RNA-dimer.. <i>Tetrahedron Letters</i> , 1991, 32, 3723-3726.	0.7	33
22	Stereospecific oxidation and oxidative coupling of H-phosphonate and H-phosphonothioate diesters. <i>Tetrahedron Letters</i> , 1992, 33, 3185-3188.	0.7	31
23	Solid support synthesis of all-Rp-oligo(ribonucleoside phosphorothioate)s. <i>Nucleic Acids Research</i> , 1996, 24, 3811-3820.	6.5	29
24	A synthetic snRNA m3G-CAP enhances nuclear delivery of exogenous proteins and nucleic acids. <i>Nucleic Acids Research</i> , 2009, 37, 1925-1935.	6.5	29
25	Mechanism of RNase T1: concerted triester-like phosphoryl transfer via a catalytic three-centered hydrogen bond. <i>Chemistry and Biology</i> , 2000, 7, 651-658.	6.2	28
26	Boosting innate immunity: Development and validation of a cell-based screening assay to identify LL-37 inducers. <i>Innate Immunity</i> , 2014, 20, 364-376.	1.1	28
27	Base Catalysis and Leaving Group Dependence in Intramolecular Alcoholysis of Uridine 3'-(Aryl) Tj ETQq1 1 0.784314 rgBT /Overloc	6.6	26
28	Sequence-specific RNA cleavage by PNA conjugates of the metal-free artificial ribonuclease tris(2-aminobenzimidazole). <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 493-498.	1.3	26
29	Unfolding of the Amyloid β -Peptide Central Helix: Mechanistic Insights from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2011, 6, e17587.	1.1	26
30	Acidity of Secondary Hydroxyls in ATP and Adenosine Analogues and the Question of a 2',3'-Hydrogen Bond in Ribonucleosides. <i>Journal of the American Chemical Society</i> , 2004, 126, 14710-14711.	6.6	24
31	¹⁹ F-NMR Spectroscopic Analysis of the Binding Modes in Triple-Helical Peptide Nucleic Acid (PNA)/MicroRNA Complexes. <i>Chemistry - A European Journal</i> , 2017, 23, 7113-7124.	1.7	24
32	Synthesis and Properties of Oligoribonucleotide Analogs Having Formacetal Internucleoside Linkages. <i>Journal of Organic Chemistry</i> , 1997, 62, 1846-1850.	1.7	23
33	Analysis of the Stability and Flexibility of RNA Complexes Containing Bulge Loops of Different Sizes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2008, 26, 163-173.	2.0	21
34	Innovative developments and emerging technologies in RNA therapeutics. <i>RNA Biology</i> , 2022, 19, 313-332.	1.5	19
35	Nuclease resistant oligonucleotides with cell penetrating properties. <i>Chemical Communications</i> , 2015, 51, 4044-4047.	2.2	18
36	Capping of oligonucleotides with "clickable" m3G-CAPs. <i>RSC Advances</i> , 2012, 2, 12949.	1.7	17

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37	Effects of Ligands on Unfolding of the Amyloid β -Peptide Central Helix: Mechanistic Insights from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2012, 7, e30510.	1.1	17
38	Treatment with Entinostat Heals Experimental Cholera by Affecting Physical and Chemical Barrier Functions of Intestinal Epithelia. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	16
39	Cationic Peptides that Increase the Thermal Stabilities of 2'-O-MeRNA/RNA Duplexes but Do Not Affect DNA/DNA Melting. <i>ChemBioChem</i> , 2010, 11, 2606-2612.	1.3	15
40	A METHOD FOR SYNTHESIS OF AN ARTIFICIAL RIBONUCLEASE. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 1385-1388.	0.4	14
41	RNA Cleavage by 2,9-Diamino-1,10-Phenanthroline PNA Conjugates. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1479-1483.	0.4	14
42	Synthesis of estradiol backbone mimics via the Stille reaction using copper(II) oxide as co-reagent. <i>Tetrahedron Letters</i> , 2011, 52, 209-211.	0.7	14
43	Zinc Ion-Dependent Peptide Nucleic Acid-Based Artificial Enzyme that Cleaves RNA's Bulge Size and Sequence Dependence. <i>Molecules</i> , 2017, 22, 1856.	1.7	14
44	Efficient Conjugation to Phosphorothioate Oligonucleotides by Cu-Catalyzed Huisgen 1,3-Dipolar Cycloaddition. <i>Bioconjugate Chemistry</i> , 2019, 30, 1622-1628.	1.8	14
45	Studies on Ribonucleoside Hydrogenphosphonates. Effect of a Vicinal Hydroxyl Function on the Stability of H-Phosphonate Diester Bond. <i>Nucleosides & Nucleotides</i> , 1988, 7, 321-337.	0.5	13
46	Stereoselectivity in the Synthesis of 3'-Deoxy-3'-C-(hydroxymethyl)uridines by Hydroboration and Conversion into a Building Block for Various 3'-Deoxy-3'-C-(methylene)uridine Analogues. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 4305.	1.2	12
47	Oligoribonucleotide Analogues Containing a Mixed Backbone of Phosphodiester and Formacetal Internucleoside Linkages, Together with Vicinal 2'-O-Methyl Groups. <i>ChemBioChem</i> , 2007, 8, 537-545.	1.3	12
48	Investigation on Condensing Agents for Phosphinate Ester Formation with Nucleoside 5'-Hydroxyl Functions. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1705-1714.	1.2	12
49	Novel aroylated phenylenediamine compounds enhance antimicrobial defense and maintain airway epithelial barrier integrity. <i>Scientific Reports</i> , 2019, 9, 7114.	1.6	12
50	An engineered ribonuclease preferring phosphorothioate RNA. <i>Nature Structural Biology</i> , 1998, 5, 365-368.	9.7	11
51	Stability Studies of N-Acylimidazoles. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 2633.	1.2	11
52	Solid phase synthesis, radiolabeling and biological evaluation of a ^{99m}Tc -labeled β -V β 3 tripeptide (RGD) conjugated to DOTA as a tumor imaging agent. <i>Cancer Biology and Therapy</i> , 2011, 11, 893-901.	1.5	11
53	Studies on the Synthesis of Oligonucleotides via the Hydrogenphosphonate Approach. <i>Nucleosides & Nucleotides</i> , 1987, 6, 283-286.	0.5	10
54	Synthesis and evaluation of stability of m3G-CAP analogues in serum-supplemented medium and cytosolic extract. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 7921-7928.	1.4	10

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55	Enabling Multiple Conjugation to Oligonucleotides Using "Click Cycles" Bioconjugate Chemistry, 2016, 27, 2620-2628.	1.8	10
56	Studies on the reaction of nucleoside phosphorodiester with aryl sulfonyl chlorides. Tetrahedron Letters, 1986, 27, 2665-2666.	0.7	9
57	Studies on the Oxidation of Nucleoside Hydrogenphosphonates. Nucleosides & Nucleotides, 1987, 6, 429-432.	0.5	9
58	Specific metal-ion binding sites in a model of the P4-P6 triple-helical domain of a group I intron. Rna, 2001, 7, 1115-1125.	1.6	9
59	Characterization of an RNA bulge structure by Fourier transform infrared spectroscopy. Biochemical and Biophysical Research Communications, 2004, 324, 634-639.	1.0	9
60	Solid Support Post-Conjugation of Amino Acids and a Phenanthroline Derivative to a Central Position in Peptide Nucleic Acids. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1485-1489.	0.4	9
61	Studies on Tris(2-aminobenzimidazole)-PNA Based Artificial Nucleases: A Comparison of Two Analytical Techniques. Bioconjugate Chemistry, 2015, 26, 2514-2519.	1.8	9
62	Clickable trimethylguanosine cap analogs modified within the triphosphate bridge: synthesis, conjugation to RNA and susceptibility to degradation. RSC Advances, 2016, 6, 8317-8328.	1.7	9
63	Further Probing of Cu ²⁺ -Dependent PNAzymes Acting as Artificial RNA Restriction Enzymes. Molecules, 2019, 24, 672.	1.7	9
64	RNA-synthesis using H-phosphonates. Synchronizing 2'-OH and N-protection. Collection of Czechoslovak Chemical Communications, 1993, 58, 236-237.	1.0	9
65	Stabilisation of RNA Bulges by Oligonucleotide Complements Containing an Adenosine Analogue. ChemBioChem, 2003, 4, 1194-1200.	1.3	8
66	Facile Determination of the Protecting Group Location of Nim-Protected Histidine Derivatives by ¹ H- ¹⁵ N Heteronuclear Correlation NMR. Journal of Organic Chemistry, 2003, 68, 7521-7523.	1.7	8
67	Side Reactions in the H-Phosphonate Approach to Oligonucleotide Synthesis: A Kinetic Investigation on Bisacylphosphite Formation and 5'-O-Acylation. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1-12.	0.4	8
68	Synthesis of fluorescent d-amino acids with 4-acetamidobiphenyl and 4-N,N-dimethylamino-1,8-naphthalimido containing side chains. Tetrahedron Letters, 2015, 56, 4780-4783.	0.7	8
69	Sequence-selective DNA recognition and enhanced cellular up-take by peptide-steroid conjugates. Chemical Communications, 2015, 51, 17552-17555.	2.2	8
70	New Alkyne and Amine Linkers for Versatile Multiple Conjugation of Oligonucleotides. ACS Omega, 2021, 6, 579-593.	1.6	8
71	Synthesis and Stability of a 2'-O-(Aminoethyl)carbamoyl]methyladenosine-Containing Dinucleotide. European Journal of Organic Chemistry, 2013, 2013, 7184-7192.	1.2	7
72	An Efficient and Facile Methodology for Bromination of Pyrimidine and Purine Nucleosides with Sodium Monobromoisocyanurate (SMBI). Molecules, 2013, 18, 12740-12750.	1.7	7

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73	A Versatile and Convenient Synthesis of ³⁴ S-Labeled Phosphorothioate Oligonucleotides. <i>ChemBioChem</i> , 2018, 19, 2114-2119.	1.3	7
74	Amyloid- β Peptide Targeting Peptidomimetics for Prevention of Neurotoxicity. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1462-1477.	1.7	7
75	The Mechanism of Cleavage of RNA Phosphodiesterases by a Gold Nanoparticle Nanozyme. <i>Chemistry - A European Journal</i> , 2021, 27, 8143-8148.	1.7	7
76	Zn ²⁺ -Dependent peptide nucleic acid-based artificial ribonucleases with unprecedented efficiency and specificity. <i>Chemical Communications</i> , 2021, 57, 10911-10914.	2.2	7
77	STUDIES IN OLIGONUCLEOTIDE-BASED ARTIFICIAL NUCLEASE SYSTEMS. INTRAMOLECULAR COPPER (II) COMPLEX FORMATION IN AN OLIGONUCLEOTIDE BIS-PHENANTHROLINE CONJUGATE. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 901-905.	0.4	6
78	Synthesis and evaluation of antineurotoxicity properties of an amyloid- β peptide targeting ligand containing a triamino acid. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6684-6693.	1.5	6
79	Clamping of RNA with PNA enables targeting of microRNA. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5210-5213.	1.5	6
80	Facile functionalization of peptide nucleic acids (PNAs) for antisense and single nucleotide polymorphism detection. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6710-6714.	1.5	6
81	2'-Amino-2'-deoxyguanosine is a cofactor for self-splicing in group I catalytic RNA. <i>Biochemical and Biophysical Research Communications</i> , 1992, 183, 842-847.	1.0	5
82	Reactions of 3'-C-Halomethyl and 3'-C-Sulfonylmethyl Uridines with Phosphinic Acid Derivatives - Synthesis of Building Blocks for Oligonucleotides Containing 3'-C-Methylenephosphonate Linkages. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 1509-1515.	1.2	5
83	EVALUATION OF SEVERAL ECONOMICAL COMPUTATIONAL METHODS FOR GEOMETRY OPTIMISATION OF PHOSPHORUS ACID DERIVATIVES. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001, 20, 1381-1384.	0.4	4
84	Comparison of Some Computational Methods for Geometry Optimisation of Phosphorus Acid Derivatives. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2002, 177, 2711-2724.	0.8	4
85	Synthesis of 8-aminoadenosine 5'-(aminoalkyl phosphates), analogues of aminoacyl adenylates. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 2653-2659.	1.4	4
86	Synthesis and biological evaluation of modified laminin peptide (N2S2-KDP) with enhanced affinity for neuronal growth and targeted molecular imaging (SPECT). <i>Bioorganic Chemistry</i> , 2021, 107, 104516.	2.0	4
87	Synthesis of nucleoside methylphosphonates and nucleoside methylthiophosphonates via phosphinate intermediates. <i>Collection of Czechoslovak Chemical Communications</i> , 1990, 55, 145-148.	1.0	4
88	NanoSIMS Imaging Reveals the Impact of Ligand-ASO Conjugate Stability on ASO Subcellular Distribution. <i>Pharmaceutics</i> , 2022, 14, 463.	2.0	4
89	2'-O-(N-(Aminoethyl)carbamoyl)methyl Modification Allows for Lower Phosphorothioate Content in Splice-Switching Oligonucleotides with Retained Activity. <i>Nucleic Acid Therapeutics</i> , 2022, , .	2.0	4
90	Chemical Synthesis of RNA-Fragment Analogues That Have Phosphorothioate Linkages of Identical Configuration. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1995, 14, 879-881.	0.4	3

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91	Synthesis of RNA Fragments Using the H-Phosphonate Method and 2'-(2'-Chlorobenzoyl) Protection. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 855-857.	0.4	3
92	Synthesis of Nucleic Acid Fragments with 3'-Deoxy-3'-C-Methylenephosphonate Linkages and Oxidation of Nucleoside 3'-Deoxy-3'-C-Methylenephosphinate Esters. European Journal of Organic Chemistry, 2002, 2002, 3140-3144.	1.2	3
93	Application of Nim-2,6-Dimethoxybenzoyl Histidine in Solid-Phase Peptide Synthesis. European Journal of Organic Chemistry, 2003, 2003, 2454-2461.	1.2	3
94	Synthesis of 2-Deuterio and 3-Deuterio Cytidine 5-Diphosphate. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1657-1659.	0.4	3
95	Stability of a 2-(Carbamoylmethyl)adenosine-Containing Dinucleotide. European Journal of Organic Chemistry, 2012, 2012, 539-543.	1.2	3
96	Influence of sequence variation on the RNA cleavage activity of Zn ²⁺ -dimethyl-dppz-PNA-based artificial enzymes. RSC Advances, 2022, 12, 5398-5406.	1.7	3
97	Activation of Nucleoside Hydrogenphosphonates by Use of Aryl Sulfonyl Chlorides. Nucleosides & Nucleotides, 1987, 6, 425-427.	0.5	2
98	RNA-Synthesis Using the H-Phosphonate Approach and an Improved Protecting Group Strategy. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 883-887.	0.4	2
99	Synthesis of Oligoarabinonucleotides Using H-Phosphonates. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 851-853.	0.4	2
100	Synthesis of PNA Oligoether Conjugates. Molecules, 2014, 19, 3135-3148.	1.7	2
101	Synthesis of Triamino Acid Building Blocks with Different Lipophilicities. PLoS ONE, 2015, 10, e0124046.	1.1	2
102	Synthesis and properties of 2'-O-methoxymethyl oligonucleotides. Collection of Czechoslovak Chemical Communications, 1996, 61, 283-286.	1.0	2
103	PREPARATION OF 3'-C-BRANCHED URIDINE ANALOGUES, SUITABLE FOR CONVERSION INTO FUNCTIONALISED 3'-C-METHYLENE DERIVATIVES. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1389-1392.	0.4	1
104	A SOLID SUPPORTED REAGENT FOR INTERNUCLEOSIDE H-PHOSPHONATE LINKAGE FORMATION. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 897-899.	0.4	1
105	Diaminopropionic acid lipopeptides: Characterization studies of polyplexes aimed at pDNA delivery. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5635-5638.	1.0	1
106	N ² -tert-Butoxycarbonyl-N ⁵ -[N-(9-fluorenylmethyloxycarbonyl)-2-aminoethyl]-(-S)-2,5-diaminopentanoic Acid. MolBank, 2014, 2014, M833.	0.2	1
107	Facile Access to Bromonucleosides Using Sodium Monobromoisocyanurate (SMBI). Current Protocols in Nucleic Acid Chemistry, 2017, 68, 1.39.1-1.39.9.	0.5	1
108	Attachment of Peptides to Oligonucleotides on Solid Support Using Copper(I)-Catalyzed Huisgen 1,3-Dipolar Cycloaddition. Methods in Molecular Biology, 2019, 2036, 165-171.	0.4	1

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109	Copper-Catalyzed Huisgen 1,3-Dipolar Cycloaddition Tailored for Phosphorothioate Oligonucleotides. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2020, 80, e102.	0.5	1
110	A Study on Synthesis and Upscaling of 2-O-AECM-5-methyl Pyrimidine Phosphoramidites for Oligonucleotide Synthesis. <i>Molecules</i> , 2021, 26, 6927.	1.7	1
111	34S-SIL of PCSK9-Active Oligonucleotide as Tools for Accurate Quantification by Mass Spectrometry. <i>Nucleic Acid Therapeutics</i> , 2021, 31, 375-381.	2.0	0
112	Hydrolytic stability of nucleoside H-phosphonate and H-phosphonothioate diesters. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 79-81.	1.0	0