Roger Stromberg

List of Publications by Year
in descending order

112	2,323	218677	243625
papers	citations	26 h-index	44 g-index

113	113	113	1910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nucleoside H-phosphonates. III. Chemical synthesis of oligodeoxyribonucleotides by the hydrogenphosphonate approach. Tetrahedron Letters, 1986, 27, 4051-4054.	1.4	179
2	Nucleoside H-phosphonates. IV. Automated solid phase synthesis of oligoribonucleotides by the hydrogenphosphonate approach. Tetrahedron Letters, 1986, 27, 4055-4058.	1.4	111
3	Removal of f-butyldimethylsilyl protection in RNA-synthesis. Triethylamine trihydrofluoride (TEA, 3HF) is a more reliable alternative to tetrabutylammonium fluoride (TBAF). Nucleic Acids Research, 1994, 22, 2430-2431.	14.5	110
4	Biological Activity and Biotechnological Aspects of Peptide Nucleic Acid. Advances in Genetics, 2006, 56, 1-51.	1.8	97
5	Amyloid-Î²-Induced Action Potential Desynchronization and Degradation of Hippocampal Gamma Oscillations Is Prevented by Interference with Peptide Conformation Change and Aggregation. Journal of Neuroscience, 2014, 34, 11416-11425.	3.6	91
6	Studies on the t-butyldimethylsilyl group as 2'-O-protection in oligoribonucleotide synthesis via the H-phosphonate approach. Nucleic Acids Research, 1988, 16, 9285-9298.	14.5	81
7	Phenylbutyrate Counteracts Shigella Mediated Downregulation of Cathelicidin in Rabbit Lung and Intestinal Epithelia: A Potential Therapeutic Strategy. PLoS ONE, 2011, 6, e20637.	2.5	78
8	Lactose in Human Breast Milk an Inducer of Innate Immunity with Implications for a Role in Intestinal Homeostasis. PLoS ONE, 2013, 8, e53876.	2.5	76
9	Compelling evidence for a stepwise mechanism of the alkaline cyclisation of uridine 3â€²-phosphate esters. Organic and Biomolecular Chemistry, 2004, 2, 2165-2167.	2.8	65
10	Synthesis and Properties of RNA Analogues Having Amides as Interuridine Linkages at Selected Positions. Journal of the American Chemical Society, 2003, 125, 12125-12136.	13.7	62
11	PNAzymes That Are Artificial RNA Restriction Enzymes. Journal of the American Chemical Society, 2010, 132, 8984-8990.	13.7	61
12	Hydrolytic Reactions of the Diastereomeric Phosphoromonothioate Analogs of Uridylyl(3',5')uridine: Kinetics and Mechanisms for Desulfurization, Phosphoester Hydrolysis, and Transesterification to the 2',5'-Isomers. Journal of Organic Chemistry, 1995, 60, 5620-5627.	3.2	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. Journal of the Chemical Society Perkin Transactions II, 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. Organic and Biomolecular Chemistry, 2003, 1, 1461-1465.	2.8	48
15	Synthesis of new OBAN's and further studies on positioning of the catalytic group. Organic and Biomolecular Chemistry, 2004, 2, 1901-1907.	2.8	43
16	An approach towards the synthesis of oligomers containing a N-2-hydroxyethyl-aminomethylphosphonate backbone: A novel PNA analogue. Tetrahedron Letters, 1996, 37, 7857-7860.	1.4	42
17	A Method for Solid-Phase Synthesis of Oligonucleotide 5â€˜-Peptide-Conjugates Using Acid-Labile Î±-Amino Protections. Journal of the American Chemical Society, 2004, 126, 14029-14035.	13.7	41
18	Entinostat up-regulates the CAMP gene encoding LL-37 via activation of STAT3 and HIF-1Î± transcription factors. Scientific Reports, 2016, 6, 33274.	3.3	38

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19	PNA based artificial nucleases displaying catalysis with turnover in the cleavage of a leukemia related RNA model. Organic and Biomolecular Chemistry, 2008, 6, 3837.	2.8	37
20	An activated triple bond linker enables â€˜clickâ€™ attachment of peptides to oligonucleotides on solid support. Nucleic Acids Research, 2011, 39, 9047-9059.	14.5	34
21	Intramolecular transesterification in thiophosphate-analogues of an RNA-dimer.. Tetrahedron Letters, 1991, 32, 3723-3726.	1.4	33
22	Stereospecific oxidation and oxidative coupling of H-phosphonate and H-phosphonothioate diesters. Tetrahedron Letters, 1992, 33, 3185-3188.	1.4	31
23	Solid support synthesis of all-Rp-oligo(ribonucleoside phosphorothioate)s. Nucleic Acids Research, 1996, 24, 3811-3820.	14.5	29
24	A synthetic snRNA m3G-CAP enhances nuclear delivery of exogenous proteins and nucleic acids. Nucleic Acids Research, 2009, 37, 1925-1935.	14.5	29
25	Mechanism of RNase T1: concerted triester-like phosphoryl transfer via a catalytic three-centered hydrogen bond. Chemistry and Biology, 2000, 7, 651-658.	6.0	28
26	Boosting innate immunity: Development and validation of a cell-based screening assay to identify LL-37 inducers. Innate Immunity, 2014, 20, 364-376.	2.4	28
27	Base Catalysis and Leaving Group Dependence in Intramolecular Alcoholysis of Uridine 3â€˜-(Aryl) Tj ETQq1 1 0.784314 rgBT /Overloc	13.7	26
28	Sequence-specific RNA cleavage by PNA conjugates of the metal-free artificial ribonuclease tris(2-aminobenzimidazole). Beilstein Journal of Organic Chemistry, 2015, 11, 493-498.	2.2	26
29	Unfolding of the Amyloid Î²-Peptide Central Helix: Mechanistic Insights from Molecular Dynamics Simulations. PLoS ONE, 2011, 6, e17587.	2.5	26
30	Acidity of Secondary Hydroxyls in ATP and Adenosine Analogues and the Question of a 2â€˜,3â€˜-Hydrogen Bond in Ribonucleosides. Journal of the American Chemical Society, 2004, 126, 14710-14711.	13.7	24
31	¹⁹Fâ€…NMR Spectroscopic Analysis of the Binding Modes in Tripleâ€Helical Peptide Nucleic Acid (PNA)/MicroRNA Complexes. Chemistry - A European Journal, 2017, 23, 7113-7124.	3.3	24
32	Synthesis and Properties of Oligoribonucleotide Analogs Having Formacetal Internucleoside Linkages. Journal of Organic Chemistry, 1997, 62, 1846-1850.	3.2	23
33	Analysis of the Stability and Flexibility of RNA Complexes Containing Bulge Loops of Different Sizes. Journal of Biomolecular Structure and Dynamics, 2008, 26, 163-173.	3.5	21
34	Innovative developments and emerging technologies in RNA therapeutics. RNA Biology, 2022, 19, 313-332.	3.1	19
35	Nuclease resistant oligonucleotides with cell penetrating properties. Chemical Communications, 2015, 51, 4044-4047.	4.1	18
36	Capping of oligonucleotides with â€œclickableâ€•m3G-CAPs. RSC Advances, 2012, 2, 12949.	3.6	17

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37	Effects of Ligands on Unfolding of the Amyloid Î²-Peptide Central Helix: Mechanistic Insights from Molecular Dynamics Simulations. PLoS ONE, 2012, 7, e30510.	2.5	17
38	Treatment with Entinostat Heals Experimental Cholera by Affecting Physical and Chemical Barrier Functions of Intestinal Epithelia. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	16
39	Cationic Peptides that Increase the Thermal Stabilities of 2â€²â€Oâ€MeRNA/RNA Duplexes but Do Not Affect DNA/DNA Melting. ChemBioChem, 2010, 11, 2606-2612.	2.6	15
40	A METHOD FOR SYNTHESIS OF AN ARTIFICIAL RIBONUCLEASE. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1385-1388.	1.1	14
41	RNA Cleavage by 2,9-Diamino-1,10-Phenanthroline PNA Conjugates. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1479-1483.	1.1	14
42	Synthesis of estradiol backbone mimics via the Stille reaction using copper(II) oxide as co-reagent. Tetrahedron Letters, 2011, 52, 209-211.	1.4	14
43	Zinc Ion-Dependent Peptide Nucleic Acid-Based Artificial Enzyme that Cleaves RNAâ€"Bulge Size and Sequence Dependence. Molecules, 2017, 22, 1856.	3.8	14
44	Efficient Conjugation to Phosphorothioate Oligonucleotides by Cu-Catalyzed Huisgen 1,3-Dipolar Cycloaddition. Bioconjugate Chemistry, 2019, 30, 1622-1628.	3.6	14
45	Studies on Ribonucleoside Hydrogenphosphonates. Effect of a Vicinal Hydroxyl Function on the Stability of H-Phosphonate Diester Bond. Nucleosides & Nucleotides, 1988, 7, 321-337.	0.5	13
46	Stereoselectivity in the Synthesis of 3â€²-Deoxy-3â€²-C-(hydroxymethyl)uridines by Hydroboration and Conversion into a Building Block for Various 3â€²-Deoxy-3â€²-C-(methylene)uridine Analogues. European Journal of Organic Chemistry, 2001, 2001, 4305.	2.4	12
47	Oligoribonucleotide Analogues Containing a Mixed Backbone of Phosphodiester and Formacetal Internucleoside Linkages, Together with Vicinal 2â€²-O-Methyl Groups. ChemBioChem, 2007, 8, 537-545.	2.6	12
48	Investigation on Condensing Agents for Phosphinate Ester Formation with Nucleoside 5â€²â€Hydroxyl Functions. European Journal of Organic Chemistry, 2008, 2008, 1705-1714.	2.4	12
49	Novel aroylated phenylenediamine compounds enhance antimicrobial defense and maintain airway epithelial barrier integrity. Scientific Reports, 2019, 9, 7114.	3.3	12
50	An engineered ribonuclease preferring phosphorothioate RNA. Nature Structural Biology, 1998, 5, 365-368.	9.7	11
51	Stability Studies of N-Acylimidazoles. European Journal of Organic Chemistry, 2002, 2002, 2633.	2.4	11
52	Solid phase synthesis, radiolabeling and biological evaluation of a^{99m}Tc-labeled Î±_VÎ²₃tripeptide (RGD) conjugated to DOTA as a tumor imaging agent. Cancer Biology and Therapy, 2011, 11, 893-901.	3.4	11
53	Studies on the Synthesis of Oligonucleotidesviathe Hydrogenphosphonate Approach. Nucleosides & Nucleotides, 1987, 6, 283-286.	0.5	10
54	Synthesis and evaluation of stability of m3G-CAP analogues in serum-supplemented medium and cytosolic extract. Bioorganic and Medicinal Chemistry, 2013, 21, 7921-7928.	3.0	10

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55	Enabling Multiple Conjugation to Oligonucleotides Using â€œClick Cyclesâ€• Bioconjugate Chemistry, 2016, 27, 2620-2628.	3.6	10
56	Studies on the reaction of nucleoside phosphorodiesters with aryl sulfonyl chlorides. Tetrahedron Letters, 1986, 27, 2665-2666.	1.4	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.	3.5	9
59	Characterization of an RNA bulge structure by Fourier transform infrared spectroscopy. Biochemical and Biophysical Research Communications, 2004, 324, 634-639.	2.1	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.	1.1	9
61	Studies on Tris(2-aminobenzimidazole)-PNA Based Artificial Nucleases: A Comparison of Two Analytical Techniques. Bioconjugate Chemistry, 2015, 26, 2514-2519.	3.6	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.	3.6	9
63	Further Probing of Cu2+-Dependent PNAzymes Acting as Artificial RNA Restriction Enzymes. Molecules, 2019, 24, 672.	3.8	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.	2.6	8
66	Facile Determination of the Protecting Group Location ofNim-Protected Histidine Derivatives by1Hâ^'15N Heteronuclear Correlation NMR. Journal of Organic Chemistry, 2003, 68, 7521-7523.	3.2	8
67	Side Reactions in the H-Phosphonate Approach to Oligonucleotide Synthesis: A Kinetic Investigation on Bisacylphosphite Formation and 5â€²-O-Acylation. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1-12.	1.1	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.	1.4	8
69	Sequence-selective DNA recognition and enhanced cellular up-take by peptideâ€“steroid conjugates. Chemical Communications, 2015, 51, 17552-17555.	4.1	8
70	New Alkyne and Amine Linkers for Versatile Multiple Conjugation of Oligonucleotides. ACS Omega, 2021, 6, 579-593.	3.5	8
71	Synthesis and Stability of a 2â€²â€‹Oâ€[‹Nâ€(Aminoethyl)carbamoyl]methyladenosineâ€Containing Dinucleotide. European Journal of Organic Chemistry, 2013, 2013, 7184-7192.	2.4	7
72	An Efficient and Facile Methodology for Bromination of Pyrimidine and Purine Nucleosides with Sodium Monobromoisocyanurate (SMBI). Molecules, 2013, 18, 12740-12750.	3.8	7

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73	A Versatile and Convenient Synthesis of ³⁴Sâ€Labeled Phosphorothioate Oligonucleotides. ChemBioChem, 2018, 19, 2114-2119.	2.6	7
74	Amyloid-Î² Peptide Targeting Peptidomimetics for Prevention of Neurotoxicity. ACS Chemical Neuroscience, 2019, 10, 1462-1477.	3.5	7
75	The Mechanism of Cleavage of RNA Phosphodiesters by a Gold Nanoparticle Nanozyme. Chemistry - A European Journal, 2021, 27, 8143-8148.	3.3	7
76	Zn²⁺-Dependent peptide nucleic acid-based artificial ribonucleases with unprecedented efficiency and specificity. Chemical Communications, 2021, 57, 10911-10914.	4.1	7
77	STUDIES IN OLIGONUCLEOTIDE-BASED ARTIFICIAL NUCLEASE SYSTEMS. INTRAMOLECULAR COPPER (II) COMPLEX FORMATION IN AN OLIGONUCLEOTIDE BIS-PHENANTHROLINE CONJUGATE. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 901-905.	1.1	6
78	Synthesis and evaluation of antineurotoxicity properties of an amyloid-Î² peptide targeting ligand containing a triamino acid. Organic and Biomolecular Chemistry, 2014, 12, 6684-6693.	2.8	6
79	Clamping of RNA with PNA enables targeting of microRNA. Organic and Biomolecular Chemistry, 2016, 14, 5210-5213.	2.8	6
80	Facile functionalization of peptide nucleic acids (PNAs) for antisense and single nucleotide polymorphism detection. Organic and Biomolecular Chemistry, 2017, 15, 6710-6714.	2.8	6
81	2â€²-Amino-2â€²-deoxyguanosine is a cofactor for self-splicing in group I catalytic RNA. Biochemical and Biophysical Research Communications, 1992, 183, 842-847.	2.1	5
82	Reactions of 3â€²-C-Halomethyl and 3â€²-C-Sulfonylmethyl Uridines with Phosphinic Acid Derivatives â^' Synthesis of Building Blocks for Oligonucleotides Containing 3â€²-C-Methylenephosphonate Linkages. European Journal of Organic Chemistry, 2002, 2002, 1509-1515.	2.4	5
83	EVALUATION OF SEVERAL ECONOMICAL COMPUTATIONAL METHODS FOR GEOMETRY OPTIMISATION OF PHOSPHORUS ACID DERIVATIVES. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1381-1384.	1.1	4
84	Comparison of Some Computational Methods for Geometry Optimisation of Phosphorus Acid Derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 2711-2724.	1.6	4
85	Synthesis of 8-aminoadenosine 5â€²-(aminoalkyl phosphates), analogues of aminoacyl adenylates. Bioorganic and Medicinal Chemistry, 2006, 14, 2653-2659.	3.0	4
86	Synthesis and biological evaluation of modified laminin peptide (N2S2-KDP) with enhanced affinity for neuronal growth and targeted molecular imaging (SPECT). Bioorganic Chemistry, 2021, 107, 104516.	4.1	4
87	Synthesis of nucleoside methylphosphonates and nucleoside methylthiophosphonates via phosphinate intermediates. Collection of Czechoslovak Chemical Communications, 1990, 55, 145-148.	1.0	4
88	NanoSIMS Imaging Reveals the Impact of Ligand-ASO Conjugate Stability on ASO Subcellular Distribution. Pharmaceutics, 2022, 14, 463.	4.5	4
89	2â€²-O-(N-(Aminoethyl)carbamoyl)methyl Modification Allows for Lower Phosphorothioate Content in Splice-Switching Oligonucleotides with Retained Activity. Nucleic Acid Therapeutics, 2022, , .	3.6	4
90	Chemical Synthesis of RNA-Fragment Analogues That Have Phosphorothioate Linkages of Identical Configuration. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 879-881.	1.1	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.	1.1	3
92	Synthesis of Nucleic Acid Fragments with 3â€²-Deoxy-3â€²-C-Methylenephosphonate Linkages â^' Oxidation Of Nucleoside 3â€²-Deoxy-3â€²-C-Methylenephosphinate Esters. European Journal of Organic Chemistry, 2002, 2002, 3140-3144.	2.4	3
93	Application of Nim-2,6-Dimethoxybenzoyl Histidine in Solid-Phase Peptide Synthesis. European Journal of Organic Chemistry, 2003, 2003, 2454-2461.	2.4	3
94	Synthesis of 2â€²-Deuterio and 3â€²-Deuterio Cytidine 5â€²-Diphosphate. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1657-1659.	1.1	3
95	Stability of a 2â€²â€Oâ€(Carbamoylmethyl)adenosineâ€Containing Dinucleotide. European Journal of Organic Chemistry, 2012, 2012, 539-543.	2.4	3
96	Influence of sequence variation on the RNA cleavage activity of Zn²⁺-dimethyl-dppz-PNA-based artificial enzymes. RSC Advances, 2022, 12, 5398-5406.	3.6	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.	1.1	2
99	Synthesis of Oligoarabinonucleotides Using H-Phosphonates. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 851-853.	1.1	2
100	Synthesis of PNA Oligoether Conjugates. Molecules, 2014, 19, 3135-3148.	3.8	2
101	Synthesis of Triamino Acid Building Blocks with Different Lipophilicities. PLoS ONE, 2015, 10, e0124046.	2.5	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 3â€²-C-BRANCHED URIDINE ANALOGUES, SUITABLE FOR CONVERSION INTO FUNCTIONALISED 3â€²-C-METHYLENE DERIVATIVES. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 1389-1392.	1.1	1
104	A SOLID SUPPORTED REAGENT FOR INTERNUCLEOSIDE H-PHOSPHONATE LINKAGE FORMATION. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 897-899.	1.1	1
105	Diaminopropionic acid lipopeptides: Characterization studies of polyplexes aimed at pDNA delivery. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5635-5638.	2.2	1
106	N2-tert-Butoxycarbonyl-N5-[N-(9-fluorenylmethyloxycarbonyl)-2-aminoethyl]-(S)-2,5-diaminopentanoic Acid. MolBank, 2014, 2014, M833.	0.5	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.	0.9	1

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109	Copperâ€Catalyzed Huisgen 1,3â€Dipolar Cycloaddition Tailored for Phosphorothioate Oligonucleotides. Current Protocols in Nucleic Acid Chemistry, 2020, 80, e102.	0.5	1
110	A Study on Synthesis and Upscaling of 2â€²-O-AECM-5-methyl Pyrimidine Phosphoramidites for Oligonucleotide Synthesis. Molecules, 2021, 26, 6927.	3.8	1
111	34S-SIL of PCSK9-Active Oligonucleotide as Tools for Accurate Quantification by Mass Spectrometry. Nucleic Acid Therapeutics, 2021, 31, 375-381.	3.6	0
112	Hydrolytic stability of nucleoside H-phosphonate and H-phosphonothioate diesters. Collection of Czechoslovak Chemical Communications, 1993, 58, 79-81.	1.0	0