Serge L Beaucage

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach. Tetrahedron, 1992, 48, 2223-2311.	1.9	693
2	The synthesis of modified oligonucleotides by the phosphoramidite approach and their applications. Tetrahedron, 1993, 49, 6123-6194.	1.9	341
3	3H-1,2-Benzodithiole-3-one 1,1-dioxide as an improved sulfurizing reagent in the solid-phase synthesis of oligodeoxyribonucleoside phosphorothioates. Journal of the American Chemical Society, 1990, 112, 1253-1254.	13.7	317
4	The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives. Tetrahedron, 1993, 49, 1925-1963.	1.9	265
5	The automated synthesis of sulfur-containing oligodeoxyribonucleotides using 3H-1,2-benzodithiol-3-one 1,1-dioxide as a sulfur-transfer reagent. Journal of Organic Chemistry, 1990, 55, 4693-4699.	3.2	259
6	The synthesis of oligoribonucleotides. II. The use of silyl protecting groups in nucleoside and nucleotide chemistry. VII. Canadian Journal of Chemistry, 1978, 56, 2768-2780.	1.1	246
7	Nucleotide chemistry. 16. Amidine protecting groups for oligonucleotide synthesis. Journal of the American Chemical Society, 1986, 108, 2040-2048.	13.7	201
8	The synthesis of specific ribonucleotides and unrelated phosphorylated biomolecules by the phosphoramidite method. Tetrahedron, 1993, 49, 10441-10488.	1.9	92
9	Deoxyribonucleoside Cyclic N-Acylphosphoramidites as a New Class of Monomers for the Stereocontrolled Synthesis of Oligothymidylyl- and Oligodeoxycytidylyl- Phosphorothioates. Journal of the American Chemical Society, 2000, 122, 2149-2156.	13.7	83
10	Inhibition of Potentially Anti-Apoptotic Proteins by Antisense Protein Kinase C-α (Isis 3521) and Antisense bcl-2 (G3139) Phosphorothioate Oligodeoxynucleotides: Relationship to the Decreased Viability of T24 Bladder and PC3 Prostate Cancer Cells. Molecular Pharmacology, 2001, 60, 1296-1307.	2.3	58
11	A simple and efficient preparation of deoxynucleoside phosphoramidites in situ. Tetrahedron Letters, 1984, 25, 375-378.	1.4	48
12	The 3-(N-tert-Butylcarboxamido)-1-propyl Group as an Attractive Phosphate/Thiophosphate Protecting Group for Solid-Phase Oligodeoxyribonucleotide Synthesis. Journal of Organic Chemistry, 2002, 67, 6430-6438.	3.2	39
13	Fluoride ion promoted deprotection and transesterification in nucleotide triesters. Nucleic Acids Research, 1979, 7, 805-823.	14.5	38
14	The 2-(N-Formyl-N-methyl)aminoethyl Group as a Potential Phosphate/Thiophosphate Protecting Group in Solid-Phase Oligodeoxyribonucleotide Synthesis. Organic Letters, 2001, 3, 1287-1290.	4.6	37
15	Thermolytic 4-Methylthio-1-butyl Group for Phosphate/Thiophosphate Protection in Solid-Phase Synthesis of DNA Oligonucleotides. Journal of Organic Chemistry, 2004, 69, 2509-2515.	3.2	34
16	Assessment of heat-sensitive thiophosphate protecting groups in the development of thermolytic DNA oligonucleotide prodrugs. Tetrahedron, 2010, 66, 68-79.	1.9	34
17	Oligodeoxyribonucleotides Synthesis: Phosphoramidite Approach. , 1993, 20, 33-62.		33
18	Conceptual basis of the selective activation of bis(dialkylamino)methoxyphosphines by weak acids and its application toward the preparation of deoxynucleoside phosphoramidites in situ. Journal of Organic Chemistry, 1985, 50, 2019-2025.	3.2	32

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19	Thermolytic Carbonates for Potential 5â€~-Hydroxyl Protection of Deoxyribonucleosides. Journal of Organic Chemistry, 2003, 68, 10003-10012.	3.2	32
20	Thermolytic CpG-containing DNA oligonucleotides as potential immunotherapeutic prodrugs. Nucleic Acids Research, 2005, 33, 3550-3560.	14.5	30
21	Synthetic Strategies and Parameters Involved in the Synthesis of Oligodeoxyribonucleotides According to the Phosphoramidite Method. Current Protocols in Nucleic Acid Chemistry, 2000, 00, Unit 3.3.	0.5	29
22	Thermolytic Properties of 3-(2-Pyridyl)-1-propyl and 2-[N-Methyl-N-(2-pyridyl)]aminoethyl Phosphate/Thiophosphate Protecting Groups in Solid-Phase Synthesis of Oligodeoxyribonucleotides. Journal of Organic Chemistry, 2003, 68, 10123-10129.	3.2	29
23	Recent Advances in the Chemical Synthesis of RNA. Current Protocols in Nucleic Acid Chemistry, 2009, 38, Unit 2.16 1-31.	0.5	29
24	Alternating .alpha.,.betaoligothymidylates with alternating (3'.fwdarw.3')- and (5'.fwdarw.5')-internucleotidic phosphodiester linkages as models for antisense oligodeoxyribonucleotides. Journal of Organic Chemistry, 1991, 56, 3757-3759.	3.2	28
25	The 4-oxopentyl group as a labile phosphate/thiophosphate protecting group for synthetic oligodeoxyribonucleotides. Tetrahedron Letters, 2001, 42, 5635-5639.	1.4	28
26	Assessment of 4-Nitrogenated Benzyloxymethyl Groups for 2â€~-Hydroxyl Protection in Solid-Phase RNA Synthesis. Organic Letters, 2007, 9, 671-674.	4.6	27
27	2-mercaptobenzothiazolean improved reagent for the removal of methyl phosphate protecting groups from oligodeoxynucleotide phosphotriesters Tetrahedron Letters, 1988, 29, 5479-5482.	1.4	26
28	Oligonucleotide Synthesis. , 1999, , 105-152.		26
29	Thermolytic Release of Covalently Linked DNA Oligonucleotides and Their Conjugates from Controlled-Pore Glass at Near Neutral pH. Bioconjugate Chemistry, 2008, 19, 1696-1706.	3.6	24
30	N-Trifluoroacetylamino Alcohols as Phosphodiester Protecting Groups in the Synthesis of Oligodeoxyribonucleotides. Journal of Organic Chemistry, 1997, 62, 6712-6713.	3.2	22
31	Solid-Phase Synthesis of Thermolytic DNA Oligonucleotides Functionalized with a Single 4-Hydroxy-1-butyl or 4-Phosphato-/Thiophosphato-1-butyl Thiophosphate Protecting Groupâ€. Journal of Organic Chemistry, 2007, 72, 805-815.	3.2	22
32	Synthesis of (2-Deoxy-α- and -β-d-erythro-pentofuranosyl)(thymin-1-yl)alkanes and Their Incorporation into Oligodeoxyribonucleotides. Effect of Nucleobaseâ^'Sugar Linker Flexibility on the Formation of DNAâ^'DNA and DNAâ^'RNA Hybrids. Journal of Organic Chemistry, 1996, 61, 8617-8626.	3.2	21
33	Hydroxyalkylated phosphoramidate, phosphoramidothioate and phosphorodiamidothioate derivatives as thiophosphate protecting groups in the development of thermolytic DNA prodrugs. New Journal of Chemistry, 2010, 34, 880.	2.8	17
34	An Efficient Reagent for the Phosphorylation of Deoxyribonucleosides, DNA Oligonucleotides, and Their Thermolytic Analogues. Organic Letters, 2005, 7, 4201-4204.	4.6	16
35	Attachment of Reporter and Conjugate Groups to DNA. , 1999, , 153-249.		12
36	Solid-Phase Purification of Synthetic DNA Sequences. Journal of Organic Chemistry, 2016, 81, 6165-6175.	3.2	12

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37	Interaction of AD2+D2 protein and simian virus 40 large T antigen with the large tumor antigen binding site I. Biochemistry, 1984, 23, 5938-5944.	2.5	8
38	Deoxyribonucleoside Phosphoramidites. Current Protocols in Nucleic Acid Chemistry, 2001, 4, Unit 2.7.	0.5	8
39	Direct Assignment of the Absolute Configuration of a Distinct Class of Deoxyribonucleoside CyclicN-Acylphosphoramidites at Phosphorus by M-GOESY Nuclear Magnetic Resonance Spectroscopy. Journal of the American Chemical Society, 2002, 124, 1180-1181.	13.7	6
40	A Highâ€Throughput Process for the Solidâ€Phase Purification of Synthetic DNA Sequences. Current Protocols in Nucleic Acid Chemistry, 2017, 69, 10.17.1-10.17.30.	0.5	6
41	3-(N-tert-Butylcarboxamido)-1-propyl and 4-Oxopentyl Groups for Phosphate/Thiophosphate Protection in Oligodeoxyribonucleotide Synthesis. , 2002, Chapter 3, 3.9.1-3.9.16.		4
42	Release of DNA Oligonucleotides and Their Conjugates from Controlledâ€Pore Glass Under Thermolytic Conditions. Current Protocols in Nucleic Acid Chemistry, 2008, 35, Unit 3.17.	0.5	4
43	An Amphipathic trans â€Acting Phosphorothioate DNA Element Delivers Uncharged PNA and PMO Nucleic Acid Sequences in Mammalian Cells. Current Protocols in Nucleic Acid Chemistry, 2016, 64, 4.69.1-4.69.22.	0.5	4
44	Innovative 2′- <i>O</i> -Imino-2-propanoate-Protecting Group for Effective Solid-Phase Synthesis and 2′- <i>O</i> -Deprotection of RNA Sequences. Journal of Organic Chemistry, 2021, 86, 4944-4956.	3.2	4
45	An Improved Sulfurization Reagent for the Synthesis of Sulfur-Containing Oligonucleotides. Annals of the New York Academy of Sciences, 1990, 616, 483-485.	3.8	3
46	Design and Development of Thermolytic DNA Oligonucleotide Prodrugs. Annals of the New York Academy of Sciences, 2005, 1058, 26-38.	3.8	2
47	The 4â€Methylthioâ€1â€Butyl Group for Phosphate/Thiophosphate Protection in Oligodeoxyribonucleotide Synthesis. Current Protocols in Nucleic Acid Chemistry, 2004, 19, Unit 3.11.	0.5	1
48	Timeâ€Dependent Thermocontrol of the Hydrophilic and Lipophilic Properties of DNA Oligonucleotide Prodrugs. Current Protocols in Nucleic Acid Chemistry, 2010, 43, Unit 4.42	0.5	1
49	Chemical Phosphorylation of Deoxyribonucleosides and Thermolytic DNA Oligonucleotides. , 2006, Chapter 13, 13.6.1-13.6.21.		0
50	Synthesis, Characterization, and Function of an RNAâ€Based Transfection Reagent. Current Protocols in Nucleic Acid Chemistry, 2018, 72, 4.81.1-4.81.29.	0.5	0