Piet Herdewijn

List of Publications by Year
in descending order

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640	18,473	22548	29333
papers	citations	61 h-index	108 g-index

771	771	771	11323
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Overview of Marketed Nucleoside and Nucleotide Analogs. Current Protocols, 2022, 2, e376.	1.3	11
2	In vivo assembly and expression of DNA containing nonâ€canonical bases in the yeast Saccharomyces cerevisiae. ChemBioChem, 2022, , .	1.3	4
3	Reshaping an Acyclic Nucleoside Phosphonate into a Selective Anti-hepatitis B Virus Compound. Journal of Medicinal Chemistry, 2022, 65, 9396-9417.	2.9	2
4	The Network of Replication, Transcription, and Reverse Transcription of a Synthetic Genetic Cassette. Angewandte Chemie - International Edition, 2021, 60, 4175-4182.	7.2	4
5	The Network of Replication, Transcription, and Reverse Transcription of a Synthetic Genetic Cassette. Angewandte Chemie, 2021, 133, 4221-4228.	1.6	1
6	Influence of 4â€²-Substitution on the Activity of Gemcitabine and Its ProTide Against VZV and SARS-CoV-2. ACS Medicinal Chemistry Letters, 2021, 12, 88-92.	1.3	16
7	Introduction of a cyano group at the 2-position of an (R,S)-3-hydroxy-2-(phosphonomethoxy)propyl (HPMP) derivative of thymine elicits selective anti-HBV activity. RSC Medicinal Chemistry, 2021, 12, 804-808.	1.7	1
8	Stable Hairpin Structures Formed by Xyloseâ€Based Nucleic Acids. ChemBioChem, 2021, 22, 1638-1645.	1.3	4
9	Discovery of 3-phenyl- and 3-N-piperidinyl-isothiazolo[4,3-b]pyridines as highly potent inhibitors of cyclin G-associated kinase. European Journal of Medicinal Chemistry, 2021, 213, 113158.	2.6	10
10	Noncanonical DNA polymerization by aminoadenine-based siphoviruses. Science, 2021, 372, 520-524.	6.0	46
11	Functional Comparison of Laboratory-Evolved XNA Polymerases for Synthetic Biology. ACS Synthetic Biology, 2021, 10, 1429-1437.	1.9	16
12	Synthesis and inÂvitro antitumour activity of 4(R)-methyl-3-O-phosphonomethyl-Î±-l-threose nucleosides. European Journal of Medicinal Chemistry, 2021, 221, 113513.	2.6	3
13	Exploring the dNTP -binding site of HIV-1 reverse transcriptase for inhibitor design. European Journal of Medicinal Chemistry, 2021, 225, 113785.	2.6	3
14	Tenofovir-Amino Acid Conjugates Act as Polymerase Substratesâ€”Implications for Avoiding Cellular Phosphorylation in the Discovery of Nucleotide Analogues. Journal of Medicinal Chemistry, 2021, 64, 782-796.	2.9	2
15	Anno 2021: Which antivirals for the coming decade?. Annual Reports in Medicinal Chemistry, 2021, 57, 49-107.	0.5	4
16	Sliding of HIV-1 reverse transcriptase over DNA creates a transient P pocket â€“ targeting P-pocket by fragment screening. Nature Communications, 2021, 12, 7127.	5.8	6
17	In Vivo Expression of Genetic Information from Phosphoramidateâ€“DNA. ChemBioChem, 2020, 21, 272-278.	1.3	14
18	Orthogonal Genetic Systems. ChemBioChem, 2020, 21, 1408-1411.	1.3	25

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19	Structure-activity relationship study of the pyridine moiety of isothiazolo[4,3-b]pyridines as antiviral agents targeting cyclin G-associated kinase. Bioorganic and Medicinal Chemistry, 2020, 28, 115188.	1.4	14
20	Iron/Copper Co-Catalyzed Cross-Coupling Reaction for the Synthesis of 6-Substituted 7-Deazapurines and the Corresponding Nucleosides. Journal of Organic Chemistry, 2020, 85, 403-418.	1.7	14
21	Enzymatic Formation of an Artificial Base Pair Using a Modified Purine Nucleoside Triphosphate. ACS Chemical Biology, 2020, 15, 2872-2884.	1.6	21
22	Synthesis and Antiviral Evaluation of 3'â€Câ€Hydroxymethylâ€3'â€Oâ€Phosphonomethylâ€Î²â€Dâ€5'â€deoxyxylose Nucleosides. European Journal of Organic Chemistry, 2020, 2020, 4995-5002.	2.2	0
23	Synthesis and Antitumor Activity of C-7-Alkynylated and Arylated Pyrrolotriazine C-Ribonucleosides. ACS Medicinal Chemistry Letters, 2020, 11, 1605-1610.	1.3	5
24	Scalable Synthesis, In Vitro cccDNA Reduction, and In Vivo Antihepatitis B Virus Activity of a Phosphonomethoxydeoxythreosyl Adenine Prodrug. Journal of Medicinal Chemistry, 2020, 63, 13851-13860.	2.9	8
25	Effect of Molecular Crowding on DNA Polymerase Reactions along Unnatural DNA Templates. Molecules, 2020, 25, 4120.	1.7	5
26	Structural Studies of HNA Substrate Specificity in Mutants of an Archaeal DNA Polymerase Obtained by Directed Evolution. Biomolecules, 2020, 10, 1647.	1.8	7
27	Beneath the XNA world: Tools and targets to build novel biology. Current Opinion in Systems Biology, 2020, 24, 142-152.	1.3	5
28	The Kalimantacin Polyketide Antibiotics Inhibit Fatty Acid Biosynthesis in Staphylococcus aureus by Targeting the Enoylâ€Acyl Carrier Protein Binding Site of FabI. Angewandte Chemie, 2020, 132, 10636-10643.	1.6	6
29	Structureâ€“Activity Relationship Study of a Potent Î±â€Thrombin Binding Aptamer Incorporating Hexitol Nucleotides. Chemistry - A European Journal, 2020, 26, 9589-9597.	1.7	17
30	New Metalâ€Free Route towards Imidazoleâ€Substituted Uridine. European Journal of Organic Chemistry, 2020, 2020, 4022-4025.	1.2	5
31	Anti-norovirus activity of C7-modified 4-amino-pyrrolo[2,1-f][1,2,4]triazine C-nucleosides. European Journal of Medicinal Chemistry, 2020, 195, 112198.	2.6	14
32	The Kalimantacin Polyketide Antibiotics Inhibit Fatty Acid Biosynthesis in Staphylococcus aureus by Targeting the Enoylâ€Acyl Carrier Protein Binding Site of FabI. Angewandte Chemie - International Edition, 2020, 59, 10549-10556.	7.2	20
33	Chimeric siRNAs with chemically modified pentofuranose and hexopyranose nucleotides: altritol-nucleotide (ANA) containing GalNAcâ€“siRNA conjugates: in vitro and in vivo RNAi activity and resistance to 5â€²-exonuclease. Nucleic Acids Research, 2020, 48, 4028-4040.	6.5	27
34	Amidate Prodrugs of O-2-Alkylated Pyrimidine Acyclic Nucleosides Display Potent Anti-Herpesvirus Activity. ACS Medicinal Chemistry Letters, 2020, 11, 1410-1415.	1.3	7
35	Vitamin-guanosine monophosphate conjugates for in vitro transcription priming. Chemical Communications, 2020, 56, 2787-2790.	2.2	1
36	Synthesis of tetradialdose phosphonate nucleosides as mimics of l-nucleotides. Tetrahedron, 2019, 75, 130497.	1.0	1

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37	Rational design of an XNA ligase through docking of unbound nucleic acids to toroidal proteins. Nucleic Acids Research, 2019, 47, 7130-7142.	6.5	23
38	Synthesis of Poly(ADPâ€ribose) Monomer Containing 2â€²â€Oâ€Î±â€Dâ€Ribofuranosyl Adenosine. Current Protocols in Nucleic Acid Chemistry, 2019, 78, e92.	0.5	1
39	Invading Escherichia coli Genetics with a Xenobiotic Nucleic Acid Carrying an Acyclic Phosphonate Backbone (ZNA). Journal of the American Chemical Society, 2019, 141, 10844-10851.	6.6	25
40	N⁸-Glycosylated 8-Azapurine and Methylated Purine Nucleobases: Synthesis and Study of Base Pairing Properties. Journal of Organic Chemistry, 2019, 84, 13394-13409.	1.7	2
41	Synthesis of a Threosylâ€Câ€nucleoside Phosphonate. European Journal of Organic Chemistry, 2019, 2019, 6666-6672.	1.2	2
42	Full Preâ€Steadyâ€State Kinetic Analysis of Single Nucleotide Incorporation by DNA Polymerases. Current Protocols in Nucleic Acid Chemistry, 2019, 78, e98.	0.5	1
43	Synthesis of 3â€²-fluoro-4â€²-amino-hexitol nucleosides with a pyrimidine nucleobase as building blocks for oligonucleotides. Tetrahedron, 2019, 75, 1107-1114.	1.0	2
44	Enzymatic Synthesis of Backboneâ€Modified Oligonucleotides Using T4 DNA Ligase. Current Protocols in Chemical Biology, 2019, 11, e62.	1.7	3
45	Synthesis and Structureâ€“Activity Relationship Studies of Benzo[b][1,4]oxazinâ€3(4 H)â€one Analogues as Inhibitors of Mycobacterial Thymidylate Synthaseâ€…X. ChemMedChem, 2019, 14, 645-662.	1.6	9
46	What Is XNA?. Angewandte Chemie - International Edition, 2019, 58, 11570-11572.	7.2	78
47	On the Enzymatic Formation of Metal Base Pairs with Thiolated and pKaâ€Perturbed Nucleotides. ChemBioChem, 2019, 20, 3032-3040.	1.3	15
48	Was ist XNA?. Angewandte Chemie, 2019, 131, 11694-11696.	1.6	10
49	Synthesis and Structureâ€“Activity Relationships of 3,5-Disubstituted-pyrrolo[2,3-b]pyridines as Inhibitors of Adaptor-Associated Kinase 1 with Antiviral Activity. Journal of Medicinal Chemistry, 2019, 62, 5810-5831.	2.9	44
50	Synthesis and Conformation of Pentopyranoside Nucleoside Phosphonates. Journal of Organic Chemistry, 2019, 84, 6589-6603.	1.7	4
51	Highly stable hexitol based XNA aptamers targeting the vascular endothelial growth factor. Nucleic Acids Research, 2019, 47, 4927-4939.	6.5	73
52	Xylo-C-nucleosides with a pyrrolo[2,1-f][1,2,4]triazin-4-amine heterocyclic base: Synthesis and antiproliferative properties. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 1450-1453.	1.0	6
53	Kinetic analysis of N-alkylaryl carboxamide hexitol nucleotides as substrates for evolved polymerases. Nucleic Acids Research, 2019, 47, 2160-2168.	6.5	10
54	Reprint of: Non Canonical Genetic Material. Current Opinion in Biotechnology, 2019, 60, 259-267.	3.3	10

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55	Non canonical genetic material. Current Opinion in Biotechnology, 2019, 57, 25-33.	3.3	30
56	Cyclin G-associated kinase (GAK) affinity and antiviral activity studies of a series of 3-C-substituted isothiazolo[4,3-b]pyridines. European Journal of Medicinal Chemistry, 2019, 163, 256-265.	2.6	10
57	Synthesis and Anti-HIV Activity of Guanine Modified Fluorinated Acyclic Nucleoside Phosphonate Derivatives. Chemistry and Biodiversity, 2019, 16, e1800532.	1.0	3
58	Towards the enzymatic formation of artificial metal base pairs with a carboxy-imidazole-modified nucleotide. Journal of Inorganic Biochemistry, 2019, 191, 154-163.	1.5	31
59	A Scaffoldâ€Hopping Strategy toward the Identification of Inhibitors of Cyclinâ€...G Associated Kinase. ChemMedChem, 2019, 14, 237-254.	1.6	1
60	Where cone snails and spiders meet: design of small cyclic sodiumâ€channel inhibitors. FASEB Journal, 2019, 33, 3693-3703.	0.2	23
61	Synthesis of a C-Nucleoside Phosphonate by Base-Promoted Epimerization. Organic Letters, 2018, 20, 1203-1206.	2.4	3
62	Modulation of BACE1 Activity by Chemically Modified Aptamers. ChemBioChem, 2018, 19, 754-763.	1.3	23
63	Phosphonomethyl Oligonucleotides as Backbone-Modified Artificial Genetic Polymers. Journal of the American Chemical Society, 2018, 140, 6690-6699.	6.6	48
64	Amidate Prodrugs of Cyclic 9-(S)-[3-Hydroxy-2-(phosphonomethoxy)propyl]adenine with Potent Anti-Herpesvirus Activity. ACS Medicinal Chemistry Letters, 2018, 9, 381-385.	1.3	13
65	Synthesis and antiviral evaluation of cyclopentyl nucleoside phosphonates. European Journal of Medicinal Chemistry, 2018, 150, 616-625.	2.6	5
66	Emimycin and its nucleoside derivatives: Synthesis and antiviral activity. European Journal of Medicinal Chemistry, 2018, 144, 93-103.	2.6	6
67	Synthesis and Biological Evaluation of Pyrrolo[2,1â€f][1,2,4]triazine Câ€Nucleosides with a Ribose, 2â€²â€Deoxyribose, and 2â€²,3â€²â€Dideoxyribose Sugar Moiety. ChemMedChem, 2018, 13, 97-104.	1.6	17
68	Synthesis of Protected Amino Hexitol Nucleosides as Building Blocks for Oligonucleotide Synthesis. Journal of Organic Chemistry, 2018, 83, 15155-15169.	1.7	8
69	Incorporation of a minimal nucleotide into DNA. Tetrahedron Letters, 2018, 59, 4241-4244.	0.7	7
70	Synthesis of a 3â€²â€Deoxyâ€Câ€Nucleoside Phosphonate Bearing 9â€Deazaadenine as Base Moiety. European Journal of Organic Chemistry, 2018, 2018, 6657-6664.	1.2	1
71	A Single Amino Acid Substitution in Therminator DNA Polymerase Increases Incorporation Efficiency of Deoxyxylonucleotides. ChemBioChem, 2018, 19, 2410-2420.	1.3	4
72	Frontispiece: Chimeric XNA: An Unconventional Design for Orthogonal Informational Systems. Chemistry - A European Journal, 2018, 24, .	1.7	0

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73	XNA ligation using T4 DNA ligase in crowding conditions. Chemical Communications, 2018, 54, 6408-6411.	2.2	30
74	Discovery of a Potent, Orally Bioavailable PI4KIIIÎ² Inhibitor (UCB9608) Able To Significantly Prolong Allogeneic Organ Engraftment in Vivo. Journal of Medicinal Chemistry, 2018, 61, 6705-6723.	2.9	18
75	Optimization of Isothiazolo[4,3-b]pyridine-Based Inhibitors of Cyclin G Associated Kinase (GAK) with Broad-Spectrum Antiviral Activity. Journal of Medicinal Chemistry, 2018, 61, 6178-6192.	2.9	36
76	Metabolic Recruitment and Directed Evolution of Nucleoside Triphosphate Uptake inEscherichia coli. ACS Synthetic Biology, 2018, 7, 1565-1572.	1.9	14
77	Mutant Variants of the Substrate-Binding Protein DppA from Escherichia coli Enhance Growth on Nonstandard Î³-Glutamyl Amide-Containing Peptides. Applied and Environmental Microbiology, 2018, 84, .	1.4	3
78	Phosphorus Pentachloride Promoted gem-Dichlorination of 2â€²- and 3â€²-Deoxynucleosides. Molecules, 2018, 23, 1457.	1.7	1
79	Methylated Nucleobases: Synthesis and Evaluation for Base Pairing Inâ€…Vitro and Inâ€…Vivo. Chemistry - A European Journal, 2018, 24, 12695-12707.	1.7	6
80	Chimeric XNA: An Unconventional Design for Orthogonal Informational Systems. Chemistry - A European Journal, 2018, 24, 12811-12819.	1.7	9
81	Peptidoglycan glycosyltransferase-ligand binding assay based on tryptophan fluorescence quenching. Biochimie, 2018, 152, 1-5.	1.3	5
82	PCR Amplification of Baseâ€Modified DNA. Current Protocols in Chemical Biology, 2018, 10, 18-48.	1.7	3
83	Random-sequence genetic oligomer pools display an innate potential for ligation and recombination. ELife, 2018, 7, .	2.8	43
84	Oligonucleotide promoted peptide bond formation using a tRNA mimicking approach. Chemical Communications, 2017, 53, 5013-5016.	2.2	0
85	On the enzymatic incorporation of an imidazole nucleotide into DNA. Organic and Biomolecular Chemistry, 2017, 15, 4449-4455.	1.5	35
86	Synthesis and antiviral evaluation of base-modified deoxythreosyl nucleoside phosphonates. Organic and Biomolecular Chemistry, 2017, 15, 5513-5528.	1.5	4
87	Baseâ€Modified Nucleic Acids as a Powerful Tool for Synthetic Biology and Biotechnology. Chemistry - A European Journal, 2017, 23, 9560-9576.	1.7	28
88	Discovery of a new Mycobacterium tuberculosis thymidylate synthase X inhibitor with a unique inhibition profile. Biochemical Pharmacology, 2017, 135, 69-78.	2.0	16
89	The 5-chlorouracil:7-deazaadenine base pair as an alternative to the dT:dA base pair. Organic and Biomolecular Chemistry, 2017, 15, 168-176.	1.5	20
90	Astemizole analogues with reduced hERG inhibition as potent antimalarial compounds. Bioorganic and Medicinal Chemistry, 2017, 25, 6332-6344.	1.4	17

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91	Enzymatic Incorporation of Modified Purine Nucleotides in DNA. ChemBioChem, 2017, 18, 2408-2415.	1.3	2
92	Synthesis of a 3â€²-Fluoro-3â€²-deoxytetrose Adenine Phosphonate. Journal of Organic Chemistry, 2017, 82, 9464-9478.	1.7	5
93	Molecular Dynamics of Double Stranded Xylo-Nucleic Acid. Journal of Chemical Theory and Computation, 2017, 13, 5028-5038.	2.3	9
94	Facile immobilization of DNA using an enzymatic his-tag mimic. Chemical Communications, 2017, 53, 13031-13034.	2.2	23
95	Expanding the Antiviral Spectrum of 3-Fluoro-2-(phosphonomethoxy)propyl Acyclic Nucleoside Phosphonates: Diamyl Aspartate Amidate Prodrugs. Journal of Medicinal Chemistry, 2017, 60, 6220-6238.	2.9	22
96	Overcoming the membrane barrier: Recruitment of Î³-glutamyl transferase for intracellular release of metabolic cargo from peptide vectors. Metabolic Engineering, 2017, 39, 60-70.	3.6	5
97	Substrate-Dependence of Competitive Nucleotide Pyrophosphatase/Phosphodiesterase1 (NPP1) Inhibitors. Frontiers in Pharmacology, 2017, 8, 54.	1.6	36
98	Anticancer kinase inhibitors impair intracellular viral trafficking and exert broad-spectrum antiviral effects. Journal of Clinical Investigation, 2017, 127, 1338-1352.	3.9	188
99	Structural and Functional Elucidation of Peptide Ts11 Shows Evidence of a Novel Subfamily of Scorpion Venom Toxins. Toxins, 2016, 8, 288.	1.5	26
100	Incorporation of Amino Acids with Long-Chain Terminal Olefins into Proteins. Molecules, 2016, 21, 287.	1.7	10
101	Chemical Morphing of DNA Containing Four Noncanonical Bases. Angewandte Chemie, 2016, 128, 7641-7645.	1.6	11
102	Chemical Morphing of DNA Containing Four Noncanonical Bases. Angewandte Chemie - International Edition, 2016, 55, 7515-7519.	7.2	40
103	Syntheses of 5â€²â€Nucleoside Monophosphate Derivatives with Unique Aminal, Hemiaminal, and Hemithioaminal Functionalities: A New Class of 5â€²â€Peptidyl Nucleotides. Chemistry - A European Journal, 2016, 22, 8167-8180.	1.7	7
104	l-Aspartic and l-glutamic acid ester-based ProTides of anticancer nucleosides: Synthesis and antitumoral evaluation. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2142-2146.	1.0	12
105	Lipophilic nalmefene prodrugs to achieve a one-month sustained release. Journal of Controlled Release, 2016, 232, 196-202.	4.8	10
106	Bifunctional aryloxyphosphoramidate prodrugs of 2â€²-C-Me-uridine: synthesis and anti-HCV activity. Organic and Biomolecular Chemistry, 2016, 14, 8743-8757.	1.5	4
107	Amidate Prodrugs of Deoxythreosyl Nucleoside Phosphonates as Dual Inhibitors of HIV and HBV Replication. Journal of Medicinal Chemistry, 2016, 59, 9513-9531.	2.9	26
108	Synthesis of a Nucleobase-Modified ProTide Library. Organic Letters, 2016, 18, 5816-5819.	2.4	9

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109	Evaluation of anhydrohexitol nucleic acid, cyclohexenyl nucleic acid and<scp>d</scp>-altritol nucleic acid-modified 2â€²-O-methyl RNA mixmer antisense oligonucleotides for exon skipping in vitro. Chemical Communications, 2016, 52, 13467-13470.	2.2	39
110	Theoretical Analysis of a Self-Replicator With Reduced Template Inhibition Based on an Informational Leaving Group. Journal of Molecular Evolution, 2016, 82, 93-109.	0.8	2
111	Thiazolo[3,2-a]benzimidazol-3(2H)-one derivatives: Structureâ€“activity relationships of selective nucleotide pyrophosphatase/phosphodiesterase1 (NPP1) inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 3157-3165.	1.4	19
112	Nanostructures from Synthetic Genetic Polymers. ChemBioChem, 2016, 17, 1107-1110.	1.3	57
113	Molecular simulation of cyclohexanyl nucleic acid (CNA) duplexes with CNA, DNA and RNA and CNA triloop and tetraloop hairpin structures. Bioorganic and Medicinal Chemistry, 2016, 24, 1778-1785.	1.4	2
114	Base pairing involving artificial bases in vitro and in vivo. Chemical Science, 2016, 7, 995-1010.	3.7	19
115	Synthesis and in Vitro Antiviral Activities of [(Dihydrofuranâ€2â€yl)oxy]methylâ€phosphonate Nucleosides with 2â€Substituted Adenine as Base. Chemistry and Biodiversity, 2015, 12, 813-822.	1.0	5
116	Nucleosides with Transposed Base or 4â€²-Hydroxymethyl Moieties and Their Corresponding Oligonucleotides. Chemical Reviews, 2015, 115, 13484-13525.	23.0	21
117	Positive cooperativity between acceptor and donor sites of the peptidoglycan glycosyltransferase. Biochemical Pharmacology, 2015, 93, 141-150.	2.0	9
118	Isoguanine and 5â€Methylâ€Isocytosine Bases, In Vitro and In Vivo. Chemistry - A European Journal, 2015, 21, 5009-5022.	1.7	33
119	Achiral, acyclic nucleic acids: synthesis and biophysical studies of a possible prebiotic polymer. Organic and Biomolecular Chemistry, 2015, 13, 9249-9260.	1.5	10
120	NMR-based conformational analysis of 2â€²,6-disubstituted uridines and antiviral evaluation of new phosphoramidate prodrugs. Bioorganic and Medicinal Chemistry, 2015, 23, 5809-5815.	1.4	5
121	In vitro disposition profiling of heterocyclic compounds. International Journal of Pharmaceutics, 2015, 491, 78-90.	2.6	2
122	1â€²,5â€²-Anhydro-<scp>l</scp>-ribo-hexitol Adenine Nucleic Acids (Î±-<scp>l</scp>-HNA-A): Synthesis and Chiral Selection Properties in the Mirror Image World. Journal of Organic Chemistry, 2015, 80, 5014-5022.	1.7	13
123	Selective Inhibitors of Cyclin G Associated Kinase (GAK) as Anti-Hepatitis C Agents. Journal of Medicinal Chemistry, 2015, 58, 3393-3410.	2.9	54
124	Aspartic acid based nucleoside phosphoramidate prodrugs as potent inhibitors of hepatitis C virus replication. Organic and Biomolecular Chemistry, 2015, 13, 5158-5174.	1.5	23
125	Oligonucleotides containing a ribo-configured cyclohexanyl nucleoside: probing the role of sugar conformation in base pairing selectivity. Organic and Biomolecular Chemistry, 2015, 13, 10041-10049.	1.5	4
126	Synthesis and evaluation of C-5 modified 2â€²-deoxyuridine monophosphates as inhibitors of M. tuberculosis thymidylate synthase. Bioorganic and Medicinal Chemistry, 2015, 23, 7131-7137.	1.4	25

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127	Isothiazolo[4,3-b]pyridines as inhibitors of cyclin G associated kinase: synthesis, structureâ€“activity relationship studies and antiviral activity. MedChemComm, 2015, 6, 1666-1672.	3.5	16
128	Xylonucleic acid: synthesis, structure, and orthogonal pairing properties. Nucleic Acids Research, 2015, 43, 7189-7200.	6.5	23
129	Catalysts from synthetic genetic polymers. Nature, 2015, 518, 427-430.	13.7	230
130	Nucleoside Phosphate-Conjugates Come of Age: Catalytic Transformation, Polymerase Recognition and Antiviral Properties. Current Medicinal Chemistry, 2015, 22, 3980-3990.	1.2	5
131	A Convenient Route for the Synthesis of 3â€Deazaspongosine. European Journal of Organic Chemistry, 2014, 2014, 231-236.	1.2	5
132	Design and synthesis of nucleolipids as possible activated precursors for oligomer formation via intramolecular catalysis: stability study and supramolecular organization. Journal of Systems Chemistry, 2014, 5, 5.	1.7	11
133	Tailoring Peptideâ€“Nucleotide Conjugates (PNCs) for Nucleotide Delivery in Bacterial Cells. European Journal of Organic Chemistry, 2014, 2014, 2322-2348.	1.2	4
134	Synthesis of an Apionucleoside Family and Discovery of a Prodrug with Anti-HIV Activity. Journal of Organic Chemistry, 2014, 79, 5097-5112.	1.7	27
135	Synthesis of new biocarrierâ€“nucleotide systems for cellular delivery in bacterial auxotrophic strains. Tetrahedron, 2014, 70, 8843-8851.	1.0	1
136	Mutations in the chikungunya virus non-structural proteins cause resistance to favipiravir (T-705), a broad-spectrum antiviral. Journal of Antimicrobial Chemotherapy, 2014, 69, 2770-2784.	1.3	187
137	Discovery of a new subclass of Î±-conotoxins in the venom of Conus australis. Toxicon, 2014, 91, 145-154.	0.8	25
138	Discovery of Dual Death-Associated Protein Related Apoptosis Inducing Protein Kinase 1 and 2 Inhibitors by a Scaffold Hopping Approach. Journal of Medicinal Chemistry, 2014, 57, 7624-7643.	2.9	38
139	Probing Ambiguous Baseâ€Pairs by Genetic Transformation with XNA Templates. ChemBioChem, 2014, 15, 2255-2258.	1.3	18
140	Organophosphorus-catalyzed diaza-Wittig reaction: application to the synthesis of pyridazines. Organic and Biomolecular Chemistry, 2014, 12, 7159-7166.	1.5	28
141	Hydroxy fatty acids for the delivery of dideoxynucleosides as anti-HIV agents. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 817-820.	1.0	5
142	Phospho-carboxylic anhydride of a homologated nucleoside leads to primer degradation in the presence of a polymerase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2720-2723.	1.0	10
143	Synthesis of Î±-‹scp›l‹/scp›-Threose Nucleoside Phosphonates via Regioselective Sugar Protection. Journal of Organic Chemistry, 2013, 78, 7137-7144.	1.7	19
144	Binary Genetic Cassettes for Selecting XNAâ€Templated DNA Synthesis In Vivo. Angewandte Chemie - International Edition, 2013, 52, 8139-8143.	7.2	45

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145	Strategy for the Synthesis of Pyridazine Heterocycles and Their Derivatives. Journal of Organic Chemistry, 2013, 78, 7845-7858.	1.7	50
146	A novel and convenient strategy for the synthesis of phthalazines from an aryne precursor. Tetrahedron Letters, 2013, 54, 7056-7058.	0.7	11
147	Regioselective 2â€²-O-debenzoylation of 2',3'-di-O-benzoyl threose nucleosides. Tetrahedron Letters, 2013, 54, 6084-6086.	0.7	4
148	A short and straightforward approach towards 6-amino and 6-aminoalkyl thiazolo[4,5-c]pyridazines. Tetrahedron Letters, 2013, 54, 830-833.	0.7	5
149	The biolabile 2â€²-O-pivaloyloxymethyl modification in an RNA helix: an NMR solution structure. Organic and Biomolecular Chemistry, 2013, 11, 2638.	1.5	2
150	Simple approach to the synthesis of 3-fluoro pyrazolo[1,5-a]pyrimidine analogues. Tetrahedron Letters, 2013, 54, 2612-2614.	0.7	23
151	Enantiomeric Selection Properties of Î²â€homoDNA: Enhanced Pairing for Heterochiral Complexes. Angewandte Chemie - International Edition, 2013, 52, 6662-6665.	7.2	14
152	A Synthetic Substrate of DNA Polymerase Deviating from the Bases, Sugar, and Leaving Group of Canonical Deoxynucleoside Triphosphates. Chemistry and Biology, 2013, 20, 416-423.	6.2	20
153	Chemical fidelity of an RNA polymerase ribozyme. Chemical Science, 2013, 4, 2804.	3.7	30
154	Synthesis of Phosphonoglycine Backbone Units for the Development of Phosphono Peptide Nucleic Acids. European Journal of Organic Chemistry, 2013, 2013, 4804-4815.	1.2	13
155	Structure, stability and function of 5-chlorouracil modified A:U and G:U base pairs. Nucleic Acids Research, 2013, 41, 2689-2697.	6.5	18
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