

Arthur Van Aerschot

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249
papers

5,315
citations

38
h-index

59
g-index

270
ext. papers

5,720
ext. citations

5.5
avg. IF

4.98
L-index

#	Paper	IF	Citations
249	A large-scale chemical modification screen identifies design rules to generate siRNAs with high activity, high stability and low toxicity. <i>Nucleic Acids Research</i> , 2009 , 37, 2867-81	20.1	273
248	Synthesis and antiherpes virus activity of 1,5-anhydrohexitol nucleosides. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 2033-40	8.3	140
247	1', 5' -Anhydrohexitol Oligonucleotides: Synthesis, Base Pairing and Recognition by Regular Oligodeoxyribonucleotides and Oligoribonucleotides. <i>Chemistry - A European Journal</i> , 1997 , 3, 110-120	4.8	118
246	Cyclohexene Nucleic Acids (CeNA): Serum Stable Oligonucleotides that Activate RNase H and Increase Duplex Stability with Complementary RNA. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8595-8602	16.4	117
245	Synthesis, biological evaluation, and structure analysis of a series of new 1,5-anhydrohexitol nucleosides. <i>Journal of Medicinal Chemistry</i> , 1995 , 38, 826-35	8.3	115
244	Synthesis and anti-HIV activity of different sugar-modified pyrimidine and purine nucleosides. <i>Journal of Medicinal Chemistry</i> , 1988 , 31, 2040-8	8.3	109
243	Aminoacyl-tRNA synthetase inhibitors as potential antibiotics. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 5227-36	6.8	103
242	Antiviral activity of C-alkylated purine nucleosides obtained by cross-coupling with tetraalkyltin reagents. <i>Journal of Medicinal Chemistry</i> , 1993 , 36, 2938-42	8.3	92
241	3SFluoro-2S3Sdideoxy-5-chlorouridine: most selective anti-HIV-1 agent among a series of new 2S and 3Sfluorinated 2S3Sdideoxynucleoside analogues. <i>Journal of Medicinal Chemistry</i> , 1989 , 32, 1743-9	8.3	91
240	Anti-Hiv-1 Activity of 2',3'-Dideoxynucleoside Analogues : Structure-Activity Relationship. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1989 , 8, 659-671	1.4	90
239	1,5-Anhydrohexitol Nucleic Acids, a New Promising Antisense Construct. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1338-1339		87
238	Antisense PNA tridecamers targeted to the coding region of Ha-ras mRNA arrest polypeptide chain elongation. <i>Journal of Molecular Biology</i> , 1999 , 294, 403-16	6.5	83
237	A methyl group controls conformational equilibrium in human mitochondrial tRNA(Lys). <i>Journal of the American Chemical Society</i> , 2007 , 129, 13382-3	16.4	68
236	Inhibition of MDR1 expression with alditol-modified siRNAs. <i>Nucleic Acids Research</i> , 2007 , 35, 1064-74	20.1	67
235	Crystal structure of double helical hexitol nucleic acids. <i>Journal of the American Chemical Society</i> , 2002 , 124, 928-33	16.4	67
234	Synthesis and Conformational Study of 3-Hydroxy-4-(Hydroxymethyl)-1-Cyclohexanyl Purines and Pyrimidines. <i>Journal of Organic Chemistry</i> , 1997 , 62, 2861-2871	4.2	63
233	Selective inhibition of trypanosomal glyceraldehyde-3-phosphate dehydrogenase by protein structure-based design: toward new drugs for the treatment of sleeping sickness. <i>Journal of Medicinal Chemistry</i> , 1994 , 37, 3605-13	8.3	63

232	Enzymatic incorporation in DNA of 1,5-anhydrohexitol nucleotides. <i>Biochemistry</i> , 2000 , 39, 12757-65	3.2	62
231	Impact of spacers on the hybridization efficiency of mixed self-assembled DNA/alkanethiol films. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 72-7	11.8	61
230	Incorporation of hexose nucleoside analogues into oligonucleotides: synthesis, base-pairing properties and enzymatic stability. <i>Nucleic Acids Research</i> , 1992 , 20, 4711-6	20.1	61
229	D-Altritol Nucleic Acids (ANA): Hybridisation Properties, Stability, and Initial Structural Analysis. <i>Chemistry - A European Journal</i> , 1999 , 5, 2424-2431	4.8	57
228	Polyethylenimine but not cationic lipid improves antisense activity of 3Scapped phosphodiester oligonucleotides. <i>Oligonucleotides</i> , 1999 , 9, 515-25		57
227	1',5'-Anhydrohexitol Oligonucleotides: Hybridisation and Strand Displacement with Oligoribonucleotides, Interaction with RNase H and HIV Reverse Transcriptase. <i>Chemistry - A European Journal</i> , 1997 , 3, 1513-1520	4.8	54
226	Nonenzymatic synthesis of RNA and DNA oligomers on hexitol nucleic acid templates: the importance of the A structure. <i>Journal of the American Chemical Society</i> , 1999 , 121, 2653-6	16.4	54
225	Synthetic microcin C analogs targeting different aminoacyl-tRNA synthetases. <i>Journal of Bacteriology</i> , 2009 , 191, 6273-80	3.5	48
224	Synthesis and Pairing Properties of Oligonucleotides Containing 3-Hydroxy-4-hydroxymethyl-1-cyclohexanyl Nucleosides. <i>Chemistry - A European Journal</i> , 1999 , 5, 2139-2150	4.8	48
223	Acyclic oligonucleotides: possibilities and limitations. <i>Tetrahedron</i> , 1993 , 49, 7223-7238	2.4	48
222	Synthesis and anti-HIV evaluation of 2'Sdideoxyribo-5-chloropyrimidine analogues: reduced toxicity of 5-chlorinated 2'Sdideoxynucleosides. <i>Journal of Medicinal Chemistry</i> , 1990 , 33, 1833-9	8.3	48
221	Efficient transfer of information from hexitol nucleic acids to RNA during nonenzymatic oligomerization. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5856-9	16.4	47
220	Influence of the incorporation of (S)-9-(3,4-dihydroxybutyl)adenine on the enzymatic stability and base-pairing properties of oligodeoxynucleotides. <i>Nucleic Acids Research</i> , 1991 , 19, 2587-93	20.1	47
219	Synthesis and antiviral activity of acyclic nucleosides with a 3(S),5-dihydroxypentyl or 4(R)-methoxy-3(S),5-dihydroxypentyl side chain. <i>Journal of Medicinal Chemistry</i> , 1992 , 35, 1458-65	8.3	44
218	5-Chloro-substituted derivatives of 2'Sdideoxyribo-2'Sdideoxyuridine, 3Sfluoro-2'Sdideoxyuridine and 3Sazido-2'Sdideoxyuridine as anti-HIV agents. <i>Biochemical Pharmacology</i> , 1989 , 38, 869-74	6	44
217	3'-(1,2,3-Triazol-1-yl)-2',3'-dideoxythymidine and 3'-(1,2,3-triazol-1-yl)-2',3'-dideoxyuridine. <i>Journal of Heterocyclic Chemistry</i> , 2009 , 26, 1635-1642	1.9	39
216	Structural characterization and biological evaluation of small interfering RNAs containing cyclohexenyl nucleosides. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9340-8	16.4	39
215	Base-base interactions in the minor groove of double-stranded DNA. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5423-31	4.2	39

214	Inhibition of MDR1 gene expression by chimeric HNA antisense oligonucleotides. <i>Nucleic Acids Research</i> , 2004 , 32, 4411-9	20.1	39
213	Nonenzymatic template-directed reactions on altritol oligomers, preorganized analogues of oligonucleotides. <i>Chemistry - A European Journal</i> , 2000 , 6, 151-5	4.8	38
212	Synthesis of 2,4-dideoxy-.beta.-D-erythro-hexopyranosyl nucleosides. <i>Journal of Organic Chemistry</i> , 1993 , 58, 2977-2982	4.2	37
211	Biological effects of hexitol and altritol-modified siRNAs targeting B-Raf. <i>European Journal of Pharmacology</i> , 2009 , 606, 38-44	5.3	35
210	Hexitol nucleic acid-containing aptamers are efficient ligands of HIV-1 TAR RNA. <i>Biochemistry</i> , 2005 , 44, 2926-33	3.2	35
209	Incorporation of 2S-amido-nucleosides in oligodeoxynucleotides and oligoribonucleotides as a model for 2S-linked conjugates. <i>Nucleic Acids Research</i> , 1995 , 23, 51-7	20.1	35
208	Synthesis and evaluation of imidazole-4,5- and pyrazine-2,3-dicarboxamides targeting dengue and yellow fever virus. <i>European Journal of Medicinal Chemistry</i> , 2014 , 87, 529-39	6.8	34
207	Aminoacyl-tRNA synthetase inhibitors as antimicrobial agents: a patent review from 2006 till present. <i>Expert Opinion on Therapeutic Patents</i> , 2012 , 22, 1453-65	6.8	34
206	Maturation of the translation inhibitor microcin C. <i>Journal of Bacteriology</i> , 2009 , 191, 2380-7	3.5	34
205	N-aminoimidazole derivatives inhibiting retroviral replication via a yet unidentified mode of action. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 1546-53	8.3	34
204	Replication of hexitol oligonucleotides as a prelude to the propagation of a third type of nucleic acid in vivo. <i>Comptes Rendus - Biologies</i> , 2003 , 326, 1175-84	1.4	34
203	5SO-phosphonomethyl-2S-dideoxynucleosides: synthesis and anti-HIV activity. <i>Journal of Medicinal Chemistry</i> , 1990 , 33, 2481-7	8.3	34
202	Synthesis and antiviral activity evaluation of 3S-fluoro-3S-deoxyribonucleosides: broad-spectrum antiviral activity of 3S-fluoro-3S-deoxyadenosine. <i>Antiviral Research</i> , 1989 , 12, 133-50	10.8	33
201	MccE provides resistance to protein synthesis inhibitor microcin C by acetylating the processed form of the antibiotic. <i>Journal of Biological Chemistry</i> , 2010 , 285, 12662-9	5.4	31
200	The mechanism of microcin C resistance provided by the MccF peptidase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 37944-52	5.4	30
199	Detection of RNA hybridization by pyrene-labeled probes. <i>ChemBioChem</i> , 2009 , 10, 1175-85	3.8	30
198	Synthesis of protected D-altritol nucleosides as building blocks for oligonucleotide synthesis. <i>Tetrahedron</i> , 1999 , 55, 6527-6546	2.4	30
197	An acyclic 5-nitroindazole nucleoside analogue as ambiguous nucleoside. <i>Nucleic Acids Research</i> , 1995 , 23, 4363-70	20.1	30

196	Selective inhibition of arthropod-borne and arenaviruses in vitro by 3Sfluoro-3Sdeoxyadenosine. <i>Antiviral Research</i> , 1992 , 18, 151-62	10.8	30
195	Antimicrobial resistance in bacteria. <i>Open Medicine (Poland)</i> , 2009 , 4, 141-155	2.2	29
194	Chemical incorporation of 1-methyladenosine into oligonucleotides. <i>Nucleic Acids Research</i> , 2002 , 30, 1124-31	20.1	28
193	Synthesis and antiviral activity of 3Sheterocyclic substituted 3Sdeoxythymidines. <i>Journal of Medicinal Chemistry</i> , 1990 , 33, 868-73	8.3	28
192	Synthesis and base pairing properties of 1S5Sanhydro-L-hexitol nucleic acids (L-HNA). <i>Chemistry - A European Journal</i> , 2009 , 15, 10121-31	4.8	27
191	Synthesis and stability of oligonucleotides containing acyclic achiral nucleoside analogues with two base moieties. <i>Organic Letters</i> , 2004 , 6, 51-4	6.2	27
190	In search of flavivirus inhibitors: evaluation of different tritylated nucleoside analogues. <i>European Journal of Medicinal Chemistry</i> , 2013 , 65, 249-55	6.8	26
189	DNA-Binding Ligands from Peptide Libraries Containing Unnatural Amino Acids. <i>Chemistry - A European Journal</i> , 1998 , 4, 425-433	4.8	26
188	Aminoacyl-tRNA synthetase inhibitors as potent and synergistic immunosuppressants. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 3020-9	8.3	26
187	Oligonucleotides as antivirals: dream or realistic perspective?. <i>Antiviral Research</i> , 2006 , 71, 307-16	10.8	26
186	Patient experiences of over-the-counter medicine purchases in Flemish community pharmacies. <i>International Journal of Clinical Pharmacy</i> , 2009 , 31, 450-457		25
185	Influence of the Incorporation of 1-(2,3-Dideoxy-ED-Erythro-Hexopyranosyl)-Thymine on the Enzymatic Stability and Base-Pairing Properties of Oligodeoxynucleotides. <i>Bulletin Des Sociétés Chimiques Belges</i> , 2010 , 101, 119-130		25
184	8-substituted adenosine and theophylline-7-ribose analogues as potential partial agonists for the adenosine A1 receptor. <i>European Journal of Pharmacology</i> , 1995 , 290, 189-99		25
183	Synthetic strategy and antiviral evaluation of diamide containing heterocycles targeting dengue and yellow fever virus. <i>European Journal of Medicinal Chemistry</i> , 2016 , 121, 158-168	6.8	25
182	Base pairing of anhydrohexitol nucleosides with 2,6-diaminopurine, 5-methylcytosine and uracil asbase moiety. <i>Nucleic Acids Research</i> , 1999 , 27, 1450-6	20.1	24
181	Synthesis of thymidine from 5-iodo-2?-deoxyuridine. <i>Tetrahedron Letters</i> , 1991 , 32, 4397-4400	2	24
180	In search of Flavivirus inhibitors part 2: tritylated, diphenylmethylated and other alkylated nucleoside analogues. <i>European Journal of Medicinal Chemistry</i> , 2014 , 76, 98-109	6.8	23
179	Synthesis and properties of aminopropyl nucleic acids. <i>ChemBioChem</i> , 2005 , 6, 2298-304	3.8	23

178	Straightforward C-8 alkylation of adenosine analogues with tetraalkyltin reagents. <i>Tetrahedron Letters</i> , 1992 , 33, 2413-2416	2	23
177	3 β 5 β Di-O-trityluridine inhibits in vitro flavivirus replication. <i>Antiviral Research</i> , 2013 , 98, 242-7	10.8	22
176	Single-molecule FRET reveals a cooperative effect of two methyl group modifications in the folding of human mitochondrial tRNA(Lys). <i>Chemistry and Biology</i> , 2011 , 18, 928-36		22
175	Toward L-homo-DNA: stereoselective de novo synthesis of β -erythro-hexopyranosyl nucleosides. <i>Journal of Organic Chemistry</i> , 2010 , 75, 6402-10	4.2	22
174	N6-cyclopentyl-3Ssubstituted-xylofuranosyladenosines: a new class of non-xanthine adenosine A1 receptor antagonists. <i>Journal of Medicinal Chemistry</i> , 1997 , 40, 3765-72	8.3	21
173	Delivery of antisense oligonucleotides using cholesterol-modified sense dendrimers and cationic lipids. <i>Bioconjugate Chemistry</i> , 2005 , 16, 827-36	6.3	21
172	Synthesis of the Anticodon Hairpin tRNA ^{fMet} Containing N-[[9-(β -D-Ribofuranosyl)-9H-purin-6-yl]carbamoyl]-L-threonine (=N6-[[[(1S,2R)-1-Carboxy-2-hydroxypropyl]amino]carbonyl]adenosine, t6A). <i>Helvetica Chimica Acta</i> , 2000 , 83, 152-161	2	21
171	Identification of a peptide inhibitor against glycosomal phosphoglycerate kinase of <i>Trypanosoma brucei</i> by a synthetic peptide library approach. <i>Bioorganic and Medicinal Chemistry</i> , 1995 , 3, 257-65	3.4	21
170	Aminopurine and aminoquinazoline scaffolds for development of potential dengue virus inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017 , 126, 101-109	6.8	20
169	Antibacterial 5SO-(N-dipeptidyl)-sulfamoyladenosines. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 260-9	3.4	20
168	HNA and ANA high-affinity arrays for detections of DNA and RNA single-base mismatches. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1728-32	11.8	20
167	Biological activity of hexitol nucleic acids targeted at Ha-ras and intracellular adhesion molecule-1 mRNA. <i>Biochemical Pharmacology</i> , 2000 , 59, 655-63	6	20
166	Structural and functional characterization of microcin C resistance peptidase MccF from <i>Bacillus anthracis</i> . <i>Journal of Molecular Biology</i> , 2012 , 420, 366-83	6.5	19
165	Substituted 2-aminothiazoles are exceptional inhibitors of neuronal degeneration in tau-driven models of Alzheimer's disease. <i>European Journal of Pharmaceutical Sciences</i> , 2011 , 43, 386-92	5.1	19
164	Extended targeting potential and improved synthesis of Microcin C analogs as antibacterials. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 5462-7	3.4	19
163	Characterization of peptide chain length and constituency requirements for YejABEF-mediated uptake of microcin C analogues. <i>Journal of Bacteriology</i> , 2011 , 193, 3618-23	3.5	19
162	Oligonucleotides Containing Disaccharide Nucleosides. <i>Helvetica Chimica Acta</i> , 2001 , 84, 2387-2397	2	19
161	Hybridization between "six-membered" nucleic acids: RNA as a universal information system. <i>Organic Letters</i> , 2001 , 3, 4129-32	6.2	19

160	Synthesis and Conformational Analysis of 2'-Deoxy-2'-(3-methoxybenzamido)adenosine, a rational-designed inhibitor of trypanosomal glyceraldehyde phosphate dehydrogenase (GAPDH). <i>Helvetica Chimica Acta</i> , 1994 , 77, 631-644	2	19
159	Engineering by PCR-based exon amplification of the genomic porcine interferon-gamma DNA for expression in <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 1991 , 180, 1408-1534	3.4	19
158	A Trojan-Horse Peptide-Carboxymethyl-Cytidine Antibiotic from <i>Bacillus amyloliquefaciens</i> . <i>Journal of the American Chemical Society</i> , 2016 , 138, 15690-15698	16.4	18
157	DNA duplexes with reactive dialdehyde groups as novel reagents for cross-linking to restriction-modification enzymes. <i>Nucleic Acids Research</i> , 1997 , 25, 3302-9	20.1	18
156	Oligonucleotide Analogues with 4-Hydroxy-N-Acetylprolinol as Sugar Substitute. <i>Chemistry - A European Journal</i> , 1997 , 3, 1997-2010	4.8	18
155	Cyclohexene nucleic acids (CeNA) form stable duplexes with RNA and induce RNase H activity. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001 , 20, 785-8	1.4	18
154	Oligonucleotides Composed of 2-Deoxy-1,5-Anhydro-d-mannitol Nucleosides with a Purine Base Moiety. <i>Journal of Organic Chemistry</i> , 1998 , 63, 1574-1582	4.2	18
153	Homo-N-nucleosides: Incorporation into oligonucleotides and antiviral activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996 , 6, 1465-1468	2.9	18
152	Spectroscopic Investigation of the Formation and Disruption of Hydrogen Bonds in Pharmaceutical Semicrystalline Dispersions. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1726-1741	5.6	17
151	The RimL transacetylase provides resistance to translation inhibitor microcin C. <i>Journal of Bacteriology</i> , 2014 , 196, 3377-85	3.5	17
150	Microcin C and albomycin analogues with aryl-tetrazole substituents as nucleobase isosters are selective inhibitors of bacterial aminoacyl tRNA synthetases but lack efficient uptake. <i>ChemBioChem</i> , 2012 , 13, 1959-69	3.8	17
149	Conformational and chiral selection of oligonucleotides. <i>Chemistry and Biodiversity</i> , 2007 , 4, 803-17	2.5	17
148	De novo approach to l-anhydrohexitol nucleosides as building blocks for the synthesis of l-hexitol nucleic acids (l-HNA). <i>Tetrahedron Letters</i> , 2008 , 49, 6068-6070	2	17
147	Synthesis of Aminopropyl Phosphonate Nucleosides with Purine and Pyrimidine Bases. <i>Collection of Czechoslovak Chemical Communications</i> , 2006 , 71, 15-34		17
146	Synthesis and conformational analysis of a ribo-type cyclohexenyl nucleoside. <i>Journal of Organic Chemistry</i> , 2005 , 70, 4591-7	4.2	17
145	Selection of hammerhead ribozymes for optimum cleavage of interleukin 6 mRNA. <i>Biochemical Journal</i> , 1996 , 314 (Pt 2), 655-61	3.8	17
144	Phosphoramidite building blocks for efficient incorporation of 2'-O-aminoethoxy(and propoxy)methyl nucleosides into oligonucleotides. <i>Tetrahedron</i> , 2008 , 64, 6238-6251	2.4	16
143	1,2,4-Triazole Derivatives Inhibiting the Human Immunodeficiency Virus Type 1 (HIV-1) in vitro. <i>Helvetica Chimica Acta</i> , 2002 , 85, 1883	2	16

142	Alpha-homo-DNA and RNA form a parallel oriented non-A, non-B-type double helical structure. <i>Chemistry - A European Journal</i> , 2001 , 7, 5183-94	4.8	16
141	Synthesis of 1-(2,4-dideoxy-β-erythro-hexopyranosyl)thymine and its incorporation into oligonucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1992 , 2, 945-948	2.9	16
140	Different positions of amide side chains on the benzimidazo[1,2-a]quinoline skeleton strongly influence biological activity. <i>New Journal of Chemistry</i> , 2018 , 42, 7096-7104	3.6	15
139	Conjugation of Oligonucleotides to 3'-Polar Moieties. <i>Bulletin Des Sociétés Chimiques Belges</i> , 2010 , 104, 717-720		15
138	Improved Synthesis of Anhydrohexitol Building Blocks for Oligonucleotide Synthesis. <i>Liebigs Annalen</i> , 1997 , 1997, 1453-1461		15
137	Hybridization specificity, enzymatic activity and biological (Ha-ras) activity of oligonucleotides containing 2,4-dideoxy-beta-D-erythro-hexopyranosyl nucleosides. <i>Nucleic Acids Research</i> , 1993 , 21, 4670-6 ²⁰¹		15
136	Synthesis and Biological Activity of the Mono- and Diamino Analogues of 2'-Deoxyadenosine, Cordycepin, 9-(3-Deoxy-β-Threo-Pentofuranosyl)-Adenine (A Structural Component of Agrocin 84) and 9-(2-Deoxy-β-Threo-Pentofuranosyl)Adenine. <i>Nucleosides & Nucleotides</i> , 1989 , 8, 1231-1257		15
135	Base substituted 5SO-(N-isoleucyl)sulfamoyl nucleoside analogues as potential antibacterial agents. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 2875-86	3.4	14
134	Synthesis of a new branched chain hexopyranosyl nucleoside: 1-[2',3'-dideoxy-3'-C-(hydroxymethyl)-β-erythro-pentopyranosyl]-thymine. <i>Tetrahedron</i> , 1994 , 50, 1189-1198	2.4	14
133	Hexopyranosyl-Like Oligonucleotides. <i>ACS Symposium Series</i> , 1994 , 80-99	0.4	14
132	Dimeric building blocks with N-cyanoguanidine linkage for oligonucleotide synthesis. <i>Tetrahedron Letters</i> , 1992 , 33, 7609-7612	2	14
131	Family-wide analysis of aminoacyl-sulfamoyl-3-deazaadenosine analogues as inhibitors of aminoacyl-tRNA synthetases. <i>European Journal of Medicinal Chemistry</i> , 2018 , 148, 384-396	6.8	13
130	Evaluation of the type I signal peptidase as antibacterial target for biofilm-associated infections of <i>Staphylococcus epidermidis</i> . <i>Microbiology (United Kingdom)</i> , 2009 , 155, 3719-3729	2.9	13
129	Improved hybridisation potential of oligonucleotides comprising O-methylated anhydrohexitol nucleoside congeners. <i>Nucleic Acids Research</i> , 2001 , 29, 4187-94	20.1	13
128	Synthesis of Alanine and Proline Amino Acids with Amino or Guanidinium Substitution on the Side Chain. <i>Tetrahedron</i> , 2000 , 56, 2513-2522	2.4	13
127	Synthesis of 9-(3-azido-2,3-dideoxy-β--pentofuranosyl)-2,6-diaminopurine (AzddDAP). <i>Tetrahedron Letters</i> , 1989 , 30, 855-858	2	13
126	5S(N-aminoacyl)-sulfonamido-5Sdeoxyadenosine: attempts for a stable alternative for aminoacyl-sulfamoyl adenosines as aaRS inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2015 , 93, 227-36	6.8	12
125	Mapping of T7 RNA polymerase active site with novel reagents--oligonucleotides with reactive dialdehyde groups. <i>FEBS Letters</i> , 1999 , 442, 20-4	3.8	12

124	Synthesis, enzymatic stability and base-pairing properties of oligothymidylates containing thymidine dimers with different N-substituted guanidine linkages. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1993 , 1567		12
123	Synthesis, in vitro cellular uptake and photo-induced antiproliferative effects of lipophilic hypericin acid derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 6347-53	3.4	11
122	Synthesis of RNA containing O-beta-D-ribofuranosyl-(1 β 2 β -adenosine-5 β phosphate and 1-methyladenosine, minor components of tRNA. <i>Chemistry and Biodiversity</i> , 2005 , 2, 1153-63	2.5	11
121	Synthesis and antiviral evaluation of some beta-L-2 β 3 β dideoxy-5-chloropyrimidine nucleosides and pronucleotides. <i>Antiviral Research</i> , 2000 , 45, 169-83	10.8	11
120	Catalytic activity and stability of hammerhead ribozymes containing 2 β acetamido-2 β dideoxyribonucleosides. <i>Biochemical and Biophysical Research Communications</i> , 1995 , 210, 67-73	3.4	11
119	Stereoelectronic properties of five anti-HSV-1 2 β dideoxynucleosides analogues with heterocyclic substituents in the 5-position: a comparison with BVDU. <i>Antiviral Research</i> , 1994 , 24, 289-304	10.8	11
118	1,5-Anhydrohexit-Nucleinsüren, neue potentielle Antisense-Wirkstoffe. <i>Angewandte Chemie</i> , 1995 , 107, 1483-1485	3.6	11
117	Hydrolytic stability of potential antiviral nucleoside analogues: 3 β substituted 2 β 3 β dideoxy- and 2 β 3 β dideoxy-2 β 3 β dideoxyribonucleosides. <i>Collection of Czechoslovak Chemical Communications</i> , 1990 , 55, 17-20		11
116	Enantiomeric selection properties of HhomoDNA: enhanced pairing for heterochiral complexes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6662-5	16.4	10
115	An easy and fast method for the evaluation of Staphylococcus epidermidis type I signal peptidase inhibitors. <i>Journal of Microbiological Methods</i> , 2009 , 78, 231-7	2.8	10
114	Analysis of antisense oligonucleotides by on-capillary isotachopheresis and capillary polymer sieving electrophoresis. <i>Electrophoresis</i> , 1998 , 19, 2163-8	3.6	10
113	Synthesis of enantiomeric-pure cyclohexenyl nucleoside building blocks for oligonucleotide synthesis. <i>Tetrahedron</i> , 2004 , 60, 2111-2123	2.4	10
112	Recognition of HNA and 1,5-anhydrohexitol nucleotides by DNA metabolizing enzymes. <i>BBA - Proteins and Proteomics</i> , 2002 , 1597, 115-22		10
111	New dsDNA binding unnatural oligopeptides with pyrimidine selectivity. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 3401-13	3.4	10
110	Synthesis of 3 β -Deoxy-3 β -C-Hydroxymethyl-aldopentopyranosyl Nucleosides and their Incorporation in Oligonucleotides. Part II 1.. <i>Tetrahedron</i> , 1995 , 51, 12319-12336	2.4	10
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