Jan Balzarini

List of Publications by Year
in descending order

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284 papers	8,564 citations	43973 48 h-index	69108 77 g-index
288 all docs	288 docs citations	288 times ranked	8209 citing authors

#	Article	IF	Citations
1	A novel selective broad-spectrum anti-DNA virus agent. Nature, 1986, 323, 464-467.	13.7	782
2	Targeting the glycans of glycoproteins: a novel paradigm for antiviral therapy. Nature Reviews Microbiology, 2007, 5, 583-597.	13.6	264
3	The ProTide Prodrug Technology: From the Concept to the Clinic. Journal of Medicinal Chemistry, 2018, 61, 2211-2226.	2.9	203
4	Synthesis of Imidazo[1,2-a]pyridines as Antiviral Agents. Journal of Medicinal Chemistry, 1998, 41, 5108-5112.	2.9	186
5	Microbicide drug candidates to prevent HIV infection. Lancet, The, 2007, 369, 787-797.	6.3	180
6	Mannose-Specific Plant Lectins from the Amaryllidaceae Family Qualify as Efficient Microbicides for Prevention of Human Immunodeficiency Virus Infection. Antimicrobial Agents and Chemotherapy, 2004, 48, 3858-3870.	1.4	147
7	Synthesis and anti-HIV studies of 2-adamantyl-substituted thiazolidin-4-ones. European Journal of Medicinal Chemistry, 2007, 42, 993-1003.	2.6	140
8	Acyclovir Is Activated into a HIV-1 Reverse Transcriptase Inhibitor in Herpesvirus-Infected Human Tissues. Cell Host and Microbe, 2008, 4, 260-270.	5.1	119
9	Conformational and Quantitative Structureâ"Activity Relationship Study of Cytotoxic 2-Arylidenebenzocycloalkanones. Journal of Medicinal Chemistry, 1999, 42, 1358-1366.	2.9	110
10	Carbohydrate-binding Agents Cause Deletions of Highly Conserved Glycosylation Sites in HIV GP120. Journal of Biological Chemistry, 2005, 280, 41005-41014.	1.6	108
11	Microvirin, a Novel Î±(1,2)-Mannose-specific Lectin Isolated from Microcystis aeruginosa, Has Anti-HIV-1 Activity Comparable with That of Cyanovirin-N but a Much Higher Safety Profile. Journal of Biological Chemistry, 2010, 285, 24845-24854.	1.6	108
12	Comparative inhibitory effects of suramin and other selected compounds on the infectivity and replication of human T-cell lymphotropic virus (HTLV-III)/lymphadenopathy-associated virus (LAV). International Journal of Cancer, 1986, 37, 451-457.	2.3	106
13	Pradimicin A, a Carbohydrate-Binding Nonpeptidic Lead Compound for Treatment of Infections with Viruses with Highly Glycosylated Envelopes, Such as Human Immunodeficiency Virus. Journal of Virology, 2007, 81, 362-373.	1.5	99
14	Crystal Structures of HIV-1 Reverse Transcriptase in Complex with Carboxanilide Derivativesâ€,â€¡. Biochemistry, 1998, 37, 14394-14403.	1.2	97
15	Pyridine N-oxide derivatives: unusual anti-HIV compounds with multiple mechanisms of antiviral action. Journal of Antimicrobial Chemotherapy, 2005, 55, 135-138.	1.3	95
16	Profile of Resistance of Human Immunodeficiency Virus to Mannose-Specific Plant Lectins. Journal of Virology, 2004, 78, 10617-10627.	1.5	94
17	Targeting the glycans of gp120: a novel approach aimed at the Achilles heel of HIV. Lancet Infectious Diseases, The, 2005, 5, 726-731.	4.6	94
18	Carbohydrate-Binding Agents: A Potential Future Cornerstone for the Chemotherapy of Enveloped Viruses?. Antiviral Chemistry and Chemotherapy, 2007, 18, 1-11.	0.3	94

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19	Mutational Pathways, Resistance Profile, and Side Effects of Cyanovirin Relative to Human Immunodeficiency Virus Type 1 Strains with N-Glycan Deletions in Their gp120 Envelopes. Journal of Virology, 2006, 80, 8411-8421.	1.5	93
20	Anti-Hiv-1 Activity of 2',3'-Dideoxinucleoside Analogues : Structure-Activity Relationship. Nucleosides, Nucleotides and Nucleic Acids, 1989, 8, 659-671.	0.4	92
21	Role of MRP4 and MRP5 in biology and chemotherapy. AAPS PharmSci, 2002, 4, 22-30.	1.3	90
22	Bicyclic pyrimidine nucleoside analogues (BCNAs) as highly selective and potent inhibitors of varicella-zoster virus replication. Journal of Antimicrobial Chemotherapy, 2002, 50, 5-9.	1.3	88
23	Synthesis and anti-HIV studies of 2- and 3-adamantyl-substituted thiazolidin-4-ones. European Journal of Medicinal Chemistry, 2009, 44, 303-311.	2.6	83
24	5â€²-Nor Carbocyclic 5â€²-Deoxy-5â€²-(Isobutylthio)Adenosine and a 2â€²,3â€²-Dideoxy-2â€²,3â€²-Didehydro Derivative. Antiviral Chemistry and Chemotherapy, 2001, 12, 119-124.	0.3	82
25	Carbohydrate-Binding Agents Efficiently Prevent Dendritic Cell-Specific Intercellular Adhesion Molecule-3-Grabbing Nonintegrin (DC-SIGN)-Directed HIV-1 Transmission to T Lymphocytes. Molecular Pharmacology, 2007, 71, 3-11.	1.0	80
26	Lectin-Like Molecules of Lactobacillus rhamnosus GG Inhibit Pathogenic Escherichia coli and Salmonella Biofilm Formation. PLoS ONE, 2016, 11, e0161337.	1.1	79
27	Fused heterocycles bearing bridgehead nitrogen as potent HIV-1 NNRTIs. Part 3: Optimization of [1,2,4]triazolo[1,5-a]pyrimidine core via structure-based and physicochemical property-driven approaches. European Journal of Medicinal Chemistry, 2015, 92, 754-765.	2.6	76
28	Human Immunodeficiency Virus Type 1 Reverse Transcriptase Dimer Destabilization by 1-{Spiro[4â€˜Ââ€˜-amino-2â€˜Ââ€˜,2â€˜Ââ€˜-dioxo-1â€˜Ââ€˜,2â€˜Ââ€˜-oxathiole-5â€˜Ââ€˜,3â€˜-[2â€˜,5â€˜-bis-O-(tert-butyldimethylsilyl)-Î²-d-ribofuranosyl]]}-3-ethylthymineâ€. Biochemistry, 2000, 39, 1427-1433.	1.2	75
29	Synthesis, Characterization and in Vitro Study of the Cytostatic and Antiviral Activity of New Polymeric Silver(I) Complexes with Ribbon Structures Derived from the Conjugated Heterocyclic Thioamide 2-Mercapto-3,4,5,6-tetra- hydropyrimidine. European Journal of Inorganic Chemistry, 2004, 2004, 1420-1426.	1.0	71
30	Pyridine N-oxide derivatives are inhibitory to the human SARS and feline infectious peritonitis coronavirus in cell culture. Journal of Antimicrobial Chemotherapy, 2006, 57, 472-481.	1.3	69
31	Safety concerns for the potential use of cyanovirin-N as a microbicidal anti-HIV agent. International Journal of Biochemistry and Cell Biology, 2008, 40, 2802-2814.	1.2	67
32	Photosensitizers Mediated Photodynamic Inactivation Against Virus Particles. Mini-Reviews in Medicinal Chemistry, 2015, 15, 503-521.	1.1	67
33	Inhibition of replication of HIV in primary monocyte/macrophages by different antiviral drugs and comparative efficacy in lymphocytes. Journal of Leukocyte Biology, 1997, 62, 138-143.	1.5	66
34	7-Deazaxanthine, a novel prototype inhibitor of thymidine phosphorylase. FEBS Letters, 1998, 438, 91-95.	1.3	66
35	Lipophilic prodrugs of nucleoside triphosphates as biochemical probes and potential antivirals. Nature Communications, 2015, 6, 8716.	5.8	65
36	Efficacy of (S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine and 9-(1,3-dihydroxy-2-propoxymethyl)guanine for the treatment of murine cytomegalovirus infection in severe combined immunodeficiency mice. Journal of Medical Virology, 1992, 37, 67-71.	2.5	62

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37	Marked Depletion of Glycosylation Sites in HIV-1 gp120 under Selection Pressure by the Mannose-Specific Plant Lectins ofHippeastrumHybrid andGalanthus nivalis. Molecular Pharmacology, 2005, 67, 1556-1565.	1.0	62
38	Design and Synthesis of Lipophilic Phosphoramidate d4T-MP Prodrugs Expressing High Potency Against HIV in Cell Culture:â€‰ Structural Determinants for in Vitro Activity and QSAR. Journal of Medicinal Chemistry, 1999, 42, 4122-4128.	2.9	61
39	Isonicotinic acid hydrazide derivatives: synthesis, antimicrobial activity, and QSAR studies. Medicinal Chemistry Research, 2012, 21, 1451-1470.	1.1	58
40	Membraneâ€permeable Triphosphate Prodrugs of Nucleoside Analogues. Angewandte Chemie - International Edition, 2016, 55, 5255-5258.	7.2	57
41	Conversion of 2â€²,3â€²-dideoxyadenosine (ddA) and 2â€²,3â€²-didehydro-2â€²,3â€²-dideoxyadenosine (d4A) to their corresponding aryloxyphosphoramidate derivatives markedly potentiates their activity against human immunodeficiency virus and hepatitis B virus. FEBS Letters, 1997, 410, 324-328.	1.3	55
42	Antiretroviral Activity of Semisynthetic Derivatives of Glycopeptide Antibiotics. Journal of Medicinal Chemistry, 2003, 46, 2755-2764.	2.9	54
43	Synthesis, antimycobacterial, antiviral, antimicrobial activities, and QSAR studies of nicotinic acid benzylidene hydrazide derivatives. Medicinal Chemistry Research, 2012, 21, 1557-1576.	1.1	54
44	Anti-retrovirus activity of 9-(2-phosphonylmethoxyethyl)adenine (pmea)in vivo increases when it is less frequently administered. International Journal of Cancer, 1990, 46, 337-340.	2.3	51
45	Synthesis of triterpenoid triazine derivatives from allobetulone and betulonic acid with biological activities. Bioorganic and Medicinal Chemistry, 2014, 22, 3292-3300.	1.4	51
46	Design, synthesis and antiproliferative activity of novel heterobivalent hybrids based on imidazo[2,1- b][1,3,4]thiadiazole and imidazo[2,1- b][1,3]thiazole scaffolds. European Journal of Medicinal Chemistry, 2015, 101, 205-217.	2.6	50
47	Inhibition of feline (FIPV) and human (SARS) coronavirus by semisynthetic derivatives of glycopeptide antibiotics. Antiviral Research, 2006, 72, 20-33.	1.9	49
48	Design, synthesis of new Î²-carboline derivatives and their selective anti-HIV-2 activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1232-1235.	1.0	49
49	New Neplanocin Analogues. 7. Synthesis and Antiviral Activity of 2-Halo Derivatives of Neplanocin A1. Journal of Medicinal Chemistry, 1996, 39, 3847-3852.	2.9	48
50	Nucleotide Delivery fromcycloSaligenyl-3â€²-azido-3â€²-deoxythymidine Monophosphates (cycloSal-AZTMP). European Journal of Organic Chemistry, 1998, 1998, 837-846.	1.2	48
51	Nucleoside Diphosphate Prodrugs: Nonsymmetric DiPPro-Nucleotides. Journal of Medicinal Chemistry, 2015, 58, 6114-6130.	2.9	47
52	Pradimicin S, a Highly Soluble Nonpeptidic Small-Size Carbohydrate-Binding Antibiotic, Is an Anti-HIV Drug Lead for both Microbicidal and Systemic Use. Antimicrobial Agents and Chemotherapy, 2010, 54, 1425-1435.	1.4	46
53	3â€²â€(1,2,3â€Triazolâ€1â€yl)â€2â€²,3â€²â€dideoxythymidine and 3â€²â€(1,2,3â€triazolâ€1â€yl)â€2â€²,3â€²â€dideoxyuridine. Journal of Medicinal Chemistry, 1989, 26, 1635-1642.	1.4	45
54	Design and synthesis of N1-aryl-benzimidazoles 2-substituted as novel HIV-1 non-nucleoside reverse transcriptase inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 1459-1467.	1.4	44

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55	Synthesis, antimycobacterial, antiviral, antimicrobial activities, and QSAR studies of isonicotinic acid-1-(substituted phenyl)-ethylidene/cycloheptylidene hydrazides. Medicinal Chemistry Research, 2012, 21, 1935-1952.	1.1	40
56	Discovery of 2-pyridone derivatives as potent HIV-1 NNRTIs using molecular hybridization based on crystallographic overlays. Bioorganic and Medicinal Chemistry, 2014, 22, 1863-1872.	1.4	40
57	Design, synthesis and biological evaluation of 3,5-disubstituted 2-amino thiophene derivatives as a novel class of antitumor agents. Bioorganic and Medicinal Chemistry, 2014, 22, 5097-5109.	1.4	40
58	Conformational States of HIV-1 Reverse Transcriptase for Nucleotide Incorporation vs Pyrophosphorolysisâ€"Binding of Foscarnet. ACS Chemical Biology, 2016, 11, 2158-2164.	1.6	38
59	Linear and branched alkyl-esters and amides of gallic acid and other (mono-, di- and tri-) hydroxy benzoyl derivatives as promising anti-HCV inhibitors. European Journal of Medicinal Chemistry, 2015, 92, 656-671.	2.6	36
60	Photochemical studies and nanomolar photodynamic activities of phthalocyanines functionalized with 1,4,7-trioxanonyl moieties at their non-peripheral positions. Journal of Inorganic Biochemistry, 2016, 155, 76-81.	1.5	36
61	Lack of Susceptibility of Bicyclic Nucleoside Analogs, Highly Potent Inhibitors of Varicella-Zoster Virus, to the Catabolic Action of Thymidine Phosphorylase and Dihydropyrimidine Dehydrogenase. Molecular Pharmacology, 2002, 61, 1140-1145.	1.0	35
62	Kinetic analysis of novel multisubstrate analogue inhibitors of thymidine phosphorylase. FEBS Letters, 2000, 483, 181-185.	1.3	33
63	Efficacy of oral 9-(2-phosphonylmethoxyethyl)-2,6-diaminopurine (PMEDAP) in the treatment of retrovirus and cytomegalovirus infections in mice. Journal of Medical Virology, 1993, 39, 167-172.	2.5	32
64	Potential Multifunctional Inhibitors of HIV-1 Reverse Transcriptase. Novel [AZT]-[TSAO-T] and [d4T]-[TSAO-T] Heterodimers Modified in the Linker and in the Dideoxynucleoside Region. Journal of Medicinal Chemistry, 1999, 42, 5188-5196.	2.9	32
65	NICTABA and UDA, two GlcNAc-binding lectins with unique antiviral activity profiles. Journal of Antimicrobial Chemotherapy, 2015, 70, 1674-1685.	1.3	32
66	Design, Synthesis and Evaluation of Antiproliferative Activity of New Benzimidazolehydrazones. Molecules, 2016, 21, 579.	1.7	32
67	Inhibitory effects of 9-(2-Phosphonylmethoxyethyl)adenine and 3â€²-azido-2â€²,3â€²-dideoxythymidine on tumor development in mice inoculated intracerebrally with moloney murine sarcoma virus. International Journal of Cancer, 1990, 45, 486-489.	2.3	30
68	Molecular cloning of the lectin and a lectin-related protein from common Solomon's seal (Polygonatum multiflorum). Plant Molecular Biology, 1996, 31, 657-672.	2.0	30
69	Design, synthesis, antiviral and cytostatic activity of Ï‰-(1H-1,2,3-triazol-1-yl)(polyhydroxy)alkylphosphonates as acyclic nucleotide analogues. Bioorganic and Medicinal Chemistry, 2014, 22, 3629-3641.	1.4	30
70	SYNTHESIS OF 1-(2-DEOXY-Î²-D- RIBOFURANOSYL)-2,4-DIFLUORO-5-SUBSTITUTED-BENZENE THYMIDINE MIMICS,*SOME RELATED Î±-ANOMERS, AND THEIR EVALUATION AS ANTIVIRAL AND ANTICANCER AGENTS. Nucleosides, Nucleotides and Nucleic Acids, 2001, 20, 11-40.	0.4	29
71	Engineering of a Single Conserved Amino Acid Residue of Herpes Simplex Virus Type 1 Thymidine Kinase Allows a Predominant Shift from Pyrimidine to Purine Nucleoside Phosphorylation. Journal of Biological Chemistry, 2006, 281, 19273-19279.	1.6	29
72	Discovery of novel diarylpyrimidines as potent HIV NNRTIs via a structure-guided core-refining approach. European Journal of Medicinal Chemistry, 2014, 80, 112-121.	2.6	29

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73	Novel 3,5-bis(arylidene)-4-oxo-1-piperidinyl dimers: Structureâ€“activity relationships and potent antileukemic and antilymphoma cytotoxicity. European Journal of Medicinal Chemistry, 2014, 77, 315-322.	2.6	29
74	Synthesis and Characterization of 4,11-Diaminoanthra[2,3-b]furan-5,10-diones: Tumor Cell Apoptosis through tNOX-Modulated NAD⁺/NADH Ratio and SIRT1. Journal of Medicinal Chemistry, 2015, 58, 9522-9534.	2.9	29
75	Synthesis, antiplasmodial activity and mechanistic studies of pyrimidine-5-carbonitrile and quinoline hybrids. European Journal of Medicinal Chemistry, 2015, 101, 52-62.	2.6	29
76	Tryptophan dendrimers that inhibit HIV replication, prevent virus entry and bind to the HIV envelope glycoproteins gp120 and gp41. European Journal of Medicinal Chemistry, 2015, 106, 34-43.	2.6	29
77	High mannose-specific lectin Msl mediates key interactions of the vaginal Lactobacillus plantarum isolate CMPG5300. Scientific Reports, 2016, 6, 37339.	1.6	29
78	Title is missing!. Helvetica Chimica Acta, 2002, 85, 2961-2974.	1.0	28
79	Synthesis of thiocarbohydrazide and carbohydrazide derivatives as possible biologically active agents. Medicinal Chemistry Research, 2014, 23, 1046-1056.	1.1	28
80	Design and synthesis of a new series of modified CH-diarylpyrimidines as drug-resistant HIV non-nucleoside reverse transcriptase inhibitors. European Journal of Medicinal Chemistry, 2014, 82, 600-611.	2.6	28
81	Antiviral Activity of Synthetic Aminopyrrolic Carbohydrate Binding Agents: Targeting the Glycans of Viral gp120 to Inhibit HIV Entry. Chemistry - A European Journal, 2015, 21, 10089-10093.	1.7	28
82	S-Adenosyl-L-homocysteine Hydrolase Inhibitors as Anti-Viral Agents: 5â€²-Deoxyaristeromycin. Nucleosides & Nucleotides, 1993, 12, 185-198.	0.5	27
83	Antiviral Activity of Cyclosaligenyl Prodrugs of Acyclovir, Carbovir and Abacavir. Antiviral Chemistry and Chemotherapy, 2001, 12, 301-306.	0.3	27
84	Pronounced in vitro and in vivo antiretroviral activity of 5-substituted 2,4-diamino-6-[2-(phosphonomethoxy)ethoxy] pyrimidines. Journal of Antimicrobial Chemotherapy, 2006, 59, 80-86.	1.3	27
85	ProTides of N-(3-(5-(2â€²-deoxyuridine))prop-2-ynyl)octanamide as potential anti-tubercular and anti-viral agents. Bioorganic and Medicinal Chemistry, 2014, 22, 2816-2824.	1.4	27
86	Hairpin oligonucleotides forming G-quadruplexes: New aptamers with anti-HIV activity. European Journal of Medicinal Chemistry, 2015, 89, 51-58.	2.6	27
87	Novel Potential Agents for Human Cytomegalovirus Infection:â€‰ Synthesis and Antiviral Activity Evaluation of Benzothiadiazine Dioxide Acyclonucleosides. Journal of Medicinal Chemistry, 1999, 42, 1145-1150.	2.9	26
88	New prodrugs of two pyrimidine acyclic nucleoside phosphonates: Synthesis and antiviral activity. Bioorganic and Medicinal Chemistry, 2017, 25, 4637-4648.	1.4	26
89	Deletion of the Highly Conserved N-Glycan at Asn260 of HIV-1 gp120 Affects Folding and Lysosomal Degradation of gp120, and Results in Loss of Viral Infectivity. PLoS ONE, 2014, 9, e101181.	1.1	26
90	Intravaginal and intrarectal microbicides to prevent HIV infection. Cmaj, 2005, 172, 461-464.	0.9	25

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91	Novel multi-targeting anthra[2,3-b]thiophene-5,10-diones with guanidine-containing side chains: Interaction with telomeric G-quadruplex, inhibition of telomerase and topoisomerase I and cytotoxic properties. European Journal of Medicinal Chemistry, 2014, 85, 605-614.	2.6	25
92	Pronounced anti-proliferative activity and tumor cell selectivity of 5-alkyl-2-amino-3-methylcarboxylate thiophenes. European Journal of Medicinal Chemistry, 2017, 132, 219-235.	2.6	25
93	Synthesis and biological evaluation of phosphonopyrimidine and phosphonopurine ribonucleosides.. Chemical and Pharmaceutical Bulletin, 1987, 35, 3227-3234.	0.6	24
94	Metabolic activation of nucleoside and nucleotide reverse transcriptase inhibitors in dendritic and Langerhans cells. Aids, 2002, 16, 2159-2163.	1.0	24
95	The Amino Acid Asn136 in HIV-1 Reverse Transcriptase (RT) Maintains Efficient Association of Both RT Subunits and Enables the Rational Design of Novel RT Inhibitors. Molecular Pharmacology, 2005, 68, 49-60.	1.0	24
96	Second-GenerationcycloSal-d4TMP Pronucleotides Bearing Esterase-Cleavable Sites â€" The â€œTrappingâ€• Concept. European Journal of Organic Chemistry, 2006, 2006, 197-206.	1.2	24
97	Antiproliferative activities of halogenated thieno[3,2-d]pyrimidines. Bioorganic and Medicinal Chemistry, 2014, 22, 2113-2122.	1.4	24
98	Synthesis and evaluation of new antitumor 3-aminomethyl-4,11-dihydroxynaphtho[2,3-f]indole-5,10-diones. European Journal of Medicinal Chemistry, 2014, 86, 797-805.	2.6	24
99	Potent antiviral activity of carbohydrate-specific algal and leguminous lectins from the Brazilian biodiversity. MedChemComm, 2019, 10, 390-398.	3.5	24
100	Ein einfacher Weg zuD-Apio-Î²-D-furanosyl- und 2â€²-Desoxyapio-Î²-D-furanosylnucleosiden. Liebigs Annalen, 1995, 1995, 551-558.	0.8	23
101	New Synthesis and Antitumor Activity of CycloSal- Derivatives of 5-Fluoro-2â€²-deoxyuridinemonophosphate. Nucleosides & Nucleotides, 1997, 16, 789-792.	0.5	23
102	An efficient microwave-assisted synthesis and biological properties of polysubstituted pyrimidinyl- and 1,3,5-triazinylphosphonic acids. Tetrahedron, 2012, 68, 865-871.	1.0	23
103	Synthesis, biophysical characterization and anti-HIV activity of d(TG3AG) Quadruplexes bearing hydrophobic tails at the 5â€²-end. Bioorganic and Medicinal Chemistry, 2014, 22, 960-966.	1.4	23
104	A novel family of diarylpyrimidines (DAPYs) featuring a diatomic linker: Design, synthesis and anti-HIV activities. Bioorganic and Medicinal Chemistry, 2015, 23, 6587-6593.	1.4	23
105	The role of cellular oxidoreductases in viral entry and virus infection-associated oxidative stress: potential therapeutic applications. Expert Opinion on Therapeutic Targets, 2016, 20, 123-143.	1.5	23
106	Mycoplasmas and cancer: focus on nucleoside metabolism. EXCLI Journal, 2014, 13, 300-22.	0.5	23
107	Anti-HIV Derivatives of 1-(2,3-Dideoxy-3-N-hydroxyamino-Î²-D-threo-pentofuranosyl)thymine. Nucleosides & Nucleotides, 1994, 13, 1871-1889.	0.5	21
108	Retinoic Acid Conjugates as Potential Antitumor Agents:Â Synthesis and Biological Activity of Conjugates with Ara-A, Ara-C, 3(2H)-Furanone, and Aniline Mustard Moieties. Journal of Medicinal Chemistry, 1997, 40, 3851-3857.	2.9	21

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109	Design, synthesis and preliminary SAR studies of novel N-arylmethyl substituted piperidine-linked aniline derivatives as potent HIV-1 NNRTIs. Bioorganic and Medicinal Chemistry, 2014, 22, 633-642.	1.4	21
110	Homo Dinucleoside-Î±-hydroxyphosphonate Diesters as Prodrugs of the Antiviral Nucleoside Analogues 2',3'-Dideoxythymidine and 3'-Azido-2',3'-dideoxythymidine. Nucleosides, Nucleotides and Nucleic Acids, 1995, 14, 759-762.	0.4	20
111	1,2,4-Triazole Derivatives Inhibiting the Human Immunodeficiency Virus Type 1 (HIV-1) in vitro. Helvetica Chimica Acta, 2002, 85, 1883.	1.0	20
112	The Î±(1,2)-mannosidase I inhibitor 1-deoxymannojirimycin potentiates the antiviral activity of carbohydrate-binding agents against wild-type and mutant HIV-1 strains containing glycan deletions in gp120. FEBS Letters, 2007, 581, 2060-2064.	1.3	20
113	Synthesis of 2â€²carbamoylmethylâ€“â€²Î²â€²Dâ€²ribofuranosylpyridine with the aid of a Pd(0)â€²catalyzed reaction. Journal of Heterocyclic Chemistry, 1993, 30, 1245-1252.	1.4	19
114	Non-Nucleoside Inhibitors of Mitochondrial Thymidine Kinase (TK-2) Differentially Inhibit the Closely Related Herpes Simplex Virus Type 1 TK andDrosophila melanogasterMultifunctional Deoxynucleoside Kinase. Molecular Pharmacology, 2003, 63, 263-270.	1.0	19
115	PMPA and PMEA prodrugs for the treatment of HIV infections and human papillomavirus (HPV) associated neoplasia and cancer. European Journal of Medicinal Chemistry, 2014, 78, 259-268.	2.6	19
116	Prodrugs of Î³â€Alkylâ€Modified Nucleoside Triphosphates: Improved Inhibition of HIV Reverse Transcriptase. Angewandte Chemie - International Edition, 2020, 59, 22063-22071.	7.2	19
117	Synthesis and Biological Activity of the Mono- and Diamino Analogues of 2â€²-Deoxyadenosine, Cordycepin, 9-(3-Deoxy-Î±-D-Threo-Pentofuranosyl)-Adenine (A Structural Component of Agrocin 84) and 9-(2-Deoxy-Î±-D-Threo-Pentofuranosyl)Adenine. Nucleosides & Nucleotides, 1989, 8, 1231-1257.	0.5	18
118	Anti-(herpes simplex virus) activity of 4â€²-thio-2â€²-deoxyuridines: a biochemical investigation for viral and cellular target enzymes. Biochemical Journal, 2000, 351, 319-326.	1.7	18
119	Comparative in vitro and in vivo cytotoxic activity of (E)-5-(2-bromovinyl)-2â€²-deoxyuridine (BVDU) and its arabinosyl derivative, (E)-5-(2-bromovinyl)-1-Î²-D-arabinofuranosyluracil (BVaraU), against tumor cells expressing either the Varicella zoster or the Herpes simplex virus thymidine kinase. Cancer Gene Therapy, 2000, 7, 215-223.	2.2	18
120	Improved antiviral activity of the aryloxymethoxyalaninyl phosphoramidate (APA) prodrug of abacavir (ABC) is due to the formation of markedly increased carbovir 5â€²-triphosphate metabolite levels. FEBS Letters, 2004, 573, 38-44.	1.3	18
121	Several N-Glycans on the HIV Envelope Glycoprotein gp120 Preferentially Locate Near Disulphide Bridges and Are Required for Efficient Infectivity and Virus Transmission. PLoS ONE, 2015, 10, e0130621.	1.1	18
122	Screening Platform toward New Anti-HIV Aptamers Set on Molecular Docking and Fluorescence Quenching Techniques. Analytical Chemistry, 2016, 88, 2327-2334.	3.2	18
123	Engineering Lactobacillus rhamnosus GG and GR-1 to express HIV-inhibiting griffithsin. International Journal of Antimicrobial Agents, 2018, 52, 599-607.	1.1	18
124	Design, synthesis and evaluation of benzothiazole derivatives as multifunctional agents. Bioorganic Chemistry, 2020, 101, 103960.	2.0	18
125	Lipophilic Î±â€hydroxybenzylphosphonates as prodrugs of 3â€²â€azidoâ€2â€²,3â€²â€dideoxythymidine (AZT). Liebigs Annalen, 1995, 1995, 2195-2202.	0.8	17
126	Use of a herpes thymidine kinase/neomycin phosphotransferase chimeric gene for metabolic suicide gene transfer. Cancer Gene Therapy, 2000, 7, 574-580.	2.2	17

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127	Synthesis of 3-Nitrosoimidazo[1,2-a]pyridine Derivatives as Potential Antiretroviral Agents. Archiv Der Pharmazie, 2001, 334, 224-228.	2.1	17
128	Mycoplasma hyorhinisâ€encoded cytidine deaminase efficiently inactivates cytosineâ€based anticancer drugs. FEBS Open Bio, 2015, 5, 634-639.	1.0	17
129	Exploring the role of the Î±-carboxyphosphonate moiety in the HIV-RT activity of Î±-carboxy nucleoside phosphonates. Organic and Biomolecular Chemistry, 2016, 14, 2454-2465.	1.5	17
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