## Katherine L Seley-Radtke

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2468451/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	The evolution of nucleoside analogue antivirals: A review for chemists and non-chemists. Part 1: Early structural modifications to the nucleoside scaffold. Antiviral Research, 2018, 154, 66-86.	4.1	352
2	The evolution of antiviral nucleoside analogues: A review for chemists and non-chemists. Part II: Complex modifications to the nucleoside scaffold. Antiviral Research, 2019, 162, 5-21.	4.1	183
3	Nucleoside analogs as a rich source of antiviral agents active against arthropod-borne flaviviruses. Antiviral Chemistry and Chemotherapy, 2018, 26, 204020661876129.	0.6	113
4	Design, synthesis and evaluation of a series of acyclic fleximer nucleoside analogues with anti-coronavirus activity. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2923-2926.	2.2	70
5	"Fleximers― Design and Synthesis of a New Class of Novel Shape-Modified Nucleosides1. Journal of Organic Chemistry, 2002, 67, 3365-3373.	3.2	67
6	"Fleximers― Design and Synthesis of Two Novel Split Nucleosides. Organic Letters, 2001, 3, 3209-3210.	4.6	55
7	Synthesis and Antitumor Activity of Thieno-Separated Tricyclic Purines. Journal of Medicinal Chemistry, 2000, 43, 4877-4883.	6.4	52
8	"Molecular Chameleons― Design and Synthesis of a Second Series of Flexible Nucleosides. Journal of Organic Chemistry, 2005, 70, 1612-1619.	3.2	52
9	Creation and discovery of ligand-receptor pairs for transcriptional control with small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14707-14712.	7.1	49
10	Recent advances in synthetic approaches for medicinal chemistry of C-nucleosides. Beilstein Journal of Organic Chemistry, 2018, 14, 772-785.	2.2	46
11	Conformational Properties of Shape Modified Nucleosides â^ Fleximers. Journal of the American Chemical Society, 2004, 126, 8159-8166.	13.7	44
12	(+)-7-Deaza-5â€~-noraristeromycin as an Anti-Trypanosomal Agent. Journal of Medicinal Chemistry, 1997, 40, 622-624.	6.4	40
13	Unexpected inhibition of S-adenosyl-l-homocysteine hydrolase by a guanosine nucleoside. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1985-1988.	2.2	40
14	1-[2-(2-Benzoyl- and 2-benzylphenoxy)ethyl]uracils as potent anti-HIV-1 agents. Bioorganic and Medicinal Chemistry, 2011, 19, 5794-5802.	3.0	37
15	"Molecular Chameleons― Design and Synthesis of C-4-Substituted Imidazole Fleximers. Organic Letters, 2005, 7, 63-66.	4.6	35
16	Substrate Discrimination by the Human GTP Fucose Pyrophosphorylase. Biochemistry, 2005, 44, 10854-10863.	2.5	33
17	Thiophene-expanded guanosine analogues of Gemcitabine. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4274-4276.	2.2	33
18	Identification of Catalytic Amino Acids in the Human GTP Fucose Pyrophosphorylase Active Site. Biochemistry, 2005, 44, 13172-13178.	2.5	30

KATHERINE L SELEY-RADTKE

#	Article	IF	CITATIONS
19	Synthesis and Anti-Trypanosomal Activity of Various 8-Aza-7-deaza-5â€~-noraristeromycin Derivatives. Journal of Medicinal Chemistry, 1997, 40, 625-629.	6.4	28
20	N1,N3-disubstituted uracils as nonnucleoside inhibitors of HIV-1 reverse transcriptase. Bioorganic and Medicinal Chemistry, 2013, 21, 1150-1158.	3.0	28
21	Flex-nucleoside analogues – Novel therapeutics against filoviruses. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2800-2802.	2.2	28
22	Inhibition of Measles Virus Replication by 5′-Nor Carbocyclic Adenosine Analogues. Antiviral Chemistry and Chemotherapy, 2001, 12, 241-250.	0.6	27
23	Synthesis and anti-HCMV activity of 1-[ï‰-(phenoxy)alkyl]uracil derivatives and analogues thereof. Bioorganic and Medicinal Chemistry, 2013, 21, 4151-4157.	3.0	25
24	Antiproliferative activities of halogenated thieno[3,2-d]pyrimidines. Bioorganic and Medicinal Chemistry, 2014, 22, 2113-2122.	3.0	24
25	Recognition of Artificial Nucleobases by <i>E. coli</i> Purine Nucleoside Phosphorylase versus its Ser90Ala Mutant in the Synthesis of Baseâ€Modified Nucleosides. Chemistry - A European Journal, 2015, 21, 13401-13419.	3.3	24
26	Selective Transport of a New Class of Purine Antimetabolites by the Protozoan ParasiteTrypanosoma brucei. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 1441-1444.	1.1	23
27	NMR Studies Reveal an Unexpected Binding Site for a Redox Inhibitor of AP Endonuclease 1. Biochemistry, 2011, 50, 10540-10549.	2.5	21
28	Synthetic Routes to a Series of Proximal and Distal 2′-Deoxy Fleximers. Synthesis, 2012, 44, 3496-3504.	2.3	21
29	"Reverse―Carbocyclic Fleximers: Synthesis of a New Class of Adenosine Deaminase Inhibitors. Nucleosides, Nucleotides and Nucleic Acids, 2013, 32, 137-154.	1.1	21
30	Tricyclic 2′-C-Modified Nucleosides as Potential Anti-HCV Therapeutics. Organic Letters, 2010, 12, 4466-4469.	4.6	20
31	Does the Anti-Hepatitis B Virus Activity of (+)-5â€~-Noraristeromycin Exist in Its 4â€~-Epimer and 4â€~-Deoxygenated Derivatives?. Journal of Medicinal Chemistry, 1998, 41, 2168-2170.	6.4	19
32	1-Benzyl derivatives of 5-(arylamino)uracils as anti-HIV-1 and anti-EBV agents. Bioorganic and Medicinal Chemistry, 2010, 18, 8310-8314.	3.0	19
33	Synthesis and biological evaluation of a series of thieno-expanded tricyclic purine 2′-deoxy nucleoside analogues. Bioorganic and Medicinal Chemistry, 2012, 20, 3009-3015.	3.0	19
34	Novel 5′-Norcarbocyclic Pyrimidine Derivatives as Antibacterial Agents. Molecules, 2018, 23, 3069.	3.8	19
35	Synthesis and biological evaluation of novel flexible nucleoside analogues that inhibit flavivirus replication in vitro. Bioorganic and Medicinal Chemistry, 2020, 28, 115713.	3.0	19
36	Synthesis and antitrypanosomal activities of a series of 7-deaza-5'-noraristeromycin derivatives with variations in the cyclopentyl ring substituents. Antimicrobial Agents and Chemotherapy, 1997, 41, 1658-1661.	3.2	18

KATHERINE L SELEY-RADTKE

#	Article	IF	CITATIONS
37	Mechanistic studies in the synthesis of a series of thieno-expanded xanthosine and guanosine nucleosides. Tetrahedron, 2008, 64, 10791-10797.	1.9	18
38	Carbocyclic 5′-nor "reverse―fleximers. Design, synthesis, and preliminary biological activity. MedChemComm, 2011, 2, 650.	3.4	18
39	5â€~-Amino-5â€~-deoxy-5â€~-noraristeromycin. Journal of Organic Chemistry, 1998, 63, 7092-7094.	3.2	17
40	Carbocyclic pyrimidine nucleosides as inhibitors of S-adenosylhomocysteine hydrolase. Bioorganic and Medicinal Chemistry, 2006, 14, 7967-7971.	3.0	16
41	5â€Arylaminouracil Derivatives: New Inhibitors of <i>Mycobacterium tuberculosis</i> . Chemical Biology and Drug Design, 2015, 86, 1387-1396.	3.2	16
42	Flexibility as a Strategy in Nucleoside Antiviral Drug Design. Current Medicinal Chemistry, 2015, 22, 3910-3921.	2.4	15
43	A Methylated Derivative of 5â€~-Noraristeromycin. Journal of Organic Chemistry, 1997, 62, 5645-5646.	3.2	14
44	The Importance of the 4′-Hydroxyl Hydrogen for the Anti-trypanosomal and Antiviral Properties of (+)-5′-Noraristeromycin and Two 7-Deaza Analogues. Bioorganic and Medicinal Chemistry, 1998, 6, 797-801.	3.0	14
45	A Computational Study of Expanded Heterocyclic Nucleosides in DNA. Journal of Biomolecular Structure and Dynamics, 2008, 26, 283-292.	3.5	14
46	Scaffold hopping: Exploration of acetanilide-containing uracil analogues as potential NNRTIs. Bioorganic and Medicinal Chemistry, 2015, 23, 1069-1081.	3.0	14
47	Antiproliferative activities of halogenated pyrrolo[3,2-d]pyrimidines. Bioorganic and Medicinal Chemistry, 2015, 23, 4354-4363.	3.0	14
48	Carbocyclic 5′-Noruridine. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 269-273.	1.1	13
49	Evaluation of the antiprotozoan properties of 5â€2-norcarbocyclic pyrimidine nucleosides. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3081-3086.	2.2	13
50	Probing the Effects of Pyrimidine Functional Group Switches on Acyclic Fleximer Analogues for Antiviral Activity. Molecules, 2019, 24, 3184.	3.8	13
51	Broad-Spectrum Antiviral Activity of 3′-Deoxy-3′-Fluoroadenosine against Emerging Flaviviruses. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	13
52	Carbocyclic Isoadenosine Analogues of Neplanocin A. Organic Letters, 2003, 5, 4401-4403.	4.6	12
53	Design and Synthesis of a Series of Truncated Neplanocin Fleximers. Molecules, 2014, 19, 21200-21214.	3.8	12
54	Bicyclic and Tricyclic "Expanded―Nucleobase Analogues of Sofosbuvir: New Scaffolds for Hepatitis C Therapies. ACS Infectious Diseases, 2015, 1, 357-366.	3.8	12

KATHERINE L SELEY-RADTKE

#	Article	IF	CITATIONS
55	Investigation of 5'-Norcarbocyclic Nucleoside Analogues as Antiprotozoal and Antibacterial Agents. Molecules, 2019, 24, 3433.	3.8	12
56	Hetero-expanded Purine Nucleosides. Design, Synthesis and Preliminary Biological Activity. Nucleic Acids Symposium Series, 2008, 52, 635-636.	0.3	11
57	Structure-activity evaluation of new uracil-based non-nucleoside inhibitors of HIV reverse transcriptase. MedChemComm, 2013, 4, 1443.	3.4	11
58	Synthesis of 2′-Deoxy-9-deaza Nucleosides Using Heck Methodology. Journal of Organic Chemistry, 2013, 78, 7305-7311.	3.2	11
59	Toward the discovery of dual HCMV–VZV inhibitors: Synthesis, structure activity relationship analysis, and cytotoxicity studies of long chained 2-uracil-3-yl-N-(4-phenoxyphenyl)acetamides. Bioorganic and Medicinal Chemistry, 2015, 23, 7035-7044.	3.0	11
60	An Expedient Synthesis of Flexible Nucleosides through Enzymatic Glycosylation of Proximal and Distal Fleximer Bases. ChemBioChem, 2020, 21, 1412-1417.	2.6	11
61	Synthesis of 3-hetarylpyrroles by Suzuki–Miyaura cross-coupling. Mendeleev Communications, 2020, 30, 231-232.	1.6	11
62	Carbocyclic Oxetanocins Lacking the C-3â€~ Methylene. Journal of Medicinal Chemistry, 1997, 40, 1401-1406.	6.4	10
63	Carbocyclic 5′-norcytidine (5′-norcarbodine). Journal of Heterocyclic Chemistry, 2000, 37, 1361-1362.	2.6	10
64	"Reverse Fleximers": Introduction of a series of 5-substituted carbocyclic uridine analogues. Nucleic Acids Symposium Series, 2008, 52, 571-572.	0.3	10
65	Synthetic strategies toward carbocyclic purine–pyrimidine hybrid nucleosides. Bioorganic and Medicinal Chemistry, 2009, 17, 5520-5525.	3.0	10
66	5′-Nor carbocyclic nucleosides: unusual nonnucleoside inhibitors of HIV-1 reverse transcriptase. MedChemComm, 2013, 4, 741.	3.4	10
67	An Efficient Route to Novel Uracil-Based Drug-Like Molecules. Synthesis, 2015, 47, 1413-1422.	2.3	10
68	Synthesis of distal and proximal fleximer base analogues and evaluation in the nucleocapsid protein of HIV-1. Bioorganic and Medicinal Chemistry, 2019, 27, 2883-2892.	3.0	10
69	A highly facile approach to the synthesis of novel 2-(3-benzyl-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-1-yl)-N-phenylacetamides. Tetrahedron Letters, 2013, 54, 576-578.	1.4	9
70	Mitotic arrest of breast cancer MDA-MB-231 cells by a halogenated thieno[3,2- d ]pyrimidine. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1715-1717.	2.2	9
71	1,6-Bis[(benzyloxy)methyl]uracil derivatives—Novel antivirals with activity against HIV-1 and influenza H1N1 virus. Bioorganic and Medicinal Chemistry, 2016, 24, 2476-2485.	3.0	8
72	Structural and Biological Investigations for a Series of N-5 Substituted Pyrrolo[3,2-d]pyrimidines as Potential Anti-Cancer Therapeutics. Molecules, 2019, 24, 2656.	3.8	8

#	Article	IF	CITATIONS
73	Novel fleximer pyrazole-containing adenosine analogues: chemical, enzymatic and highly efficient biotechnological synthesis. Organic and Biomolecular Chemistry, 2021, 19, 7379-7389.	2.8	8
74	Broad spectrum antiviral nucleosides—Our best hope for the future. Annual Reports in Medicinal Chemistry, 2021, 57, 109-132.	0.9	8
75	The Synthesis of Carbocyclic 5′-Nor Thymidine and an Isomer as Oligonucleotide Monomers. Nucleosides & Nucleotides, 1999, 18, 1905-1910.	0.5	7
76	Design and Synthesis of a Series of Chlorinated 3-Deazaadenine Analogues. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 2133-2144.	1.1	7
77	Novel 1-[5-(4-bromophenoxy)pentyl]-3-(2-arylamino- 2-oxoethyl)uracils and their antiviral properties. Mendeleev Communications, 2017, 27, 85-87.	1.6	7
78	Flexibility—Not just for yoga anymore!. Antiviral Chemistry and Chemotherapy, 2018, 26, 204020661875678.	0.6	7
79	Anticancer Properties of Halogenated Pyrrolo[3,2â€ <i>d</i> ]pyrimidines with Decreased Toxicity via N5 Substitution. ChemMedChem, 2018, 13, 178-185.	3.2	7
80	7â€Deazaâ€5′â€noraristeromycin derivatives resembling Lâ€toyocamycin and Lâ€sangivamycin. Journal of Heterocyclic Chemistry, 1999, 36, 287-288.	2.6	6
81	Synthesis and antiviral evaluation against the Vaccinia virus of new N 1-oxide analogs of 5′-noraristeromycin. Russian Journal of Bioorganic Chemistry, 2010, 36, 730-733.	1.0	6
82	Modified Synthesis of 3′-OTBDPS-Protected Furanoid Glycal. Nucleosides, Nucleotides and Nucleic Acids, 2012, 31, 319-327.	1.1	6
83	Meeting report: 32nd International Conference on Antiviral Research. Antiviral Research, 2019, 169, 104550.	4.1	6
84	Discovery, Design, Synthesis, and Application of Nucleoside/Nucleotides. Molecules, 2020, 25, 1526.	3.8	6
85	A Carbocyclic 7-Deazapurine-Pyrimidine Hybrid Nucleoside. Collection of Czechoslovak Chemical Communications, 2006, 71, 1161-1168.	1.0	4
86	Carbocyclic Thymidine Analogues for Use as Potential Therapeutic Agents. Nucleosides, Nucleotides and Nucleic Acids, 2009, 28, 633-641.	1.1	3
87	Purification, crystallization and preliminary X-ray characterization of the human GTP fucose pyrophosphorylase. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 392-394.	0.7	2
88	Flexible Nucleobase Analogues: Novel Tools for Exploring Nucleic Acids. , 2014, , 149-165.		2
89	Advances in antiviral nucleoside analogues and their prodrugs. Antiviral Chemistry and Chemotherapy, 2018, 26, 204020661878141.	0.6	2
90	Synthesis of New 5′-Norcarbocyclic Aza/Deaza Purine Fleximers - Noncompetitive Inhibitors of E.coli Purine Nucleoside Phosphorylase. Frontiers in Chemistry, 2022, 10, .	3.6	2

#	Article	IF	CITATIONS
91	Small molecule antivirals – Still our best hope for a cure. Antiviral Chemistry and Chemotherapy, 2020, 28, 204020662096396.	0.6	0