

Katherine L Seley-Radtke

List of Publications by Year in descending order

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91
papers

2,277
citations

257357

24
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265120

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100
all docs

100
docs citations

100
times ranked

1983
citing authors

#	ARTICLE	IF	CITATIONS
1	The evolution of nucleoside analogue antivirals: A review for chemists and non-chemists. Part I: Early structural modifications to the nucleoside scaffold. <i>Antiviral Research</i> , 2018, 154, 66-86.	1.9	352
2	The evolution of antiviral nucleoside analogues: A review for chemists and non-chemists. Part II: Complex modifications to the nucleoside scaffold. <i>Antiviral Research</i> , 2019, 162, 5-21.	1.9	183
3	Nucleoside analogs as a rich source of antiviral agents active against arthropod-borne flaviviruses. <i>Antiviral Chemistry and Chemotherapy</i> , 2018, 26, 204020661876129.	0.3	113
4	Design, synthesis and evaluation of a series of acyclic fleximer nucleoside analogues with anti-coronavirus activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2923-2926.	1.0	70
5	“Fleximers”: Design and Synthesis of a New Class of Novel Shape-Modified Nucleosides1. <i>Journal of Organic Chemistry</i> , 2002, 67, 3365-3373.	1.7	67
6	“Fleximers”: Design and Synthesis of Two Novel Split Nucleosides. <i>Organic Letters</i> , 2001, 3, 3209-3210.	2.4	55
7	Synthesis and Antitumor Activity of Thieno-Separated Tricyclic Purines. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4877-4883.	2.9	52
8	“Molecular Chameleons”: Design and Synthesis of a Second Series of Flexible Nucleosides. <i>Journal of Organic Chemistry</i> , 2005, 70, 1612-1619.	1.7	52
9	Creation and discovery of ligand-receptor pairs for transcriptional control with small molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14707-14712.	3.3	49
10	Recent advances in synthetic approaches for medicinal chemistry of C-nucleosides. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 772-785.	1.3	46
11	Conformational Properties of Shape Modified Nucleosides “ Fleximers. <i>Journal of the American Chemical Society</i> , 2004, 126, 8159-8166.	6.6	44
12	(+)-7-Deaza-5- <i>n</i> -noraristeromycin as an Anti-Trypanosomal Agent. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 622-624.	2.9	40
13	Unexpected inhibition of S-adenosyl-l-homocysteine hydrolase by a guanosine nucleoside. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1985-1988.	1.0	40
14	1-[2-(2-Benzoyl- and 2-benzylphenoxy)ethyl]uracils as potent anti-HIV-1 agents. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 5794-5802.	1.4	37
15	“Molecular Chameleons”: Design and Synthesis of C-4-Substituted Imidazole Fleximers. <i>Organic Letters</i> , 2005, 7, 63-66.	2.4	35
16	Substrate Discrimination by the Human GTP Fucose Pyrophosphorylase. <i>Biochemistry</i> , 2005, 44, 10854-10863.	1.2	33
17	Thiophene-expanded guanosine analogues of Gemcitabine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4274-4276.	1.0	33
18	Identification of Catalytic Amino Acids in the Human GTP Fucose Pyrophosphorylase Active Site. <i>Biochemistry</i> , 2005, 44, 13172-13178.	1.2	30

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19	Synthesis and Anti-Trypanosomal Activity of Various 8-Aza-7-deaza-5 β -noraristeromycin Derivatives. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 625-629.	2.9	28
20	N1,N3-disubstituted uracils as nonnucleoside inhibitors of HIV-1 reverse transcriptase. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1150-1158.	1.4	28
21	Flex-nucleoside analogues – Novel therapeutics against filoviruses. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2800-2802.	1.0	28
22	Inhibition of Measles Virus Replication by 5 β -Nor Carbocyclic Adenosine Analogues. <i>Antiviral Chemistry and Chemotherapy</i> , 2001, 12, 241-250.	0.3	27
23	Synthesis and anti-HCMV activity of 1-[(phenoxy)alkyl]uracil derivatives and analogues thereof. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4151-4157.	1.4	25
24	Antiproliferative activities of halogenated thieno[3,2-d]pyrimidines. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2113-2122.	1.4	24
25	Recognition of Artificial Nucleobases by <i>E. coli</i> Purine Nucleoside Phosphorylase versus its Ser90Ala Mutant in the Synthesis of Base-Modified Nucleosides. <i>Chemistry - A European Journal</i> , 2015, 21, 13401-13419.	1.7	24
26	Selective Transport of a New Class of Purine Antimetabolites by the Protozoan Parasite <i>Trypanosoma brucei</i> . <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004, 23, 1441-1444.	0.4	23
27	NMR Studies Reveal an Unexpected Binding Site for a Redox Inhibitor of AP Endonuclease 1. <i>Biochemistry</i> , 2011, 50, 10540-10549.	1.2	21
28	Synthetic Routes to a Series of Proximal and Distal 2 β -Deoxy Fleximers. <i>Synthesis</i> , 2012, 44, 3496-3504.	1.2	21
29	Reverse-Carbocyclic Fleximers: Synthesis of a New Class of Adenosine Deaminase Inhibitors. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2013, 32, 137-154.	0.4	21
30	Tricyclic 2 β -C-Modified Nucleosides as Potential Anti-HCV Therapeutics. <i>Organic Letters</i> , 2010, 12, 4466-4469.	2.4	20
31	Does the Anti-Hepatitis B Virus Activity of (+)-5 β -Noraristeromycin Exist in Its 4 β -Epimer and 4 β -Deoxygenated Derivatives?. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 2168-2170.	2.9	19
32	1-Benzyl derivatives of 5-(arylamino)uracils as anti-HIV-1 and anti-EBV agents. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 8310-8314.	1.4	19
33	Synthesis and biological evaluation of a series of thieno-expanded tricyclic purine 2 β -deoxy nucleoside analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 3009-3015.	1.4	19
34	Novel 5 β -Norcarbocyclic Pyrimidine Derivatives as Antibacterial Agents. <i>Molecules</i> , 2018, 23, 3069.	1.7	19
35	Synthesis and biological evaluation of novel flexible nucleoside analogues that inhibit flavivirus replication in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115713.	1.4	19
36	Synthesis and antitrypanosomal activities of a series of 7-deaza-5'-noraristeromycin derivatives with variations in the cyclopentyl ring substituents. <i>Antimicrobial Agents and Chemotherapy</i> , 1997, 41, 1658-1661.	1.4	18

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37	Mechanistic studies in the synthesis of a series of thieno-expanded xanthosine and guanosine nucleosides. <i>Tetrahedron</i> , 2008, 64, 10791-10797.	1.0	18
38	Carbocyclic 5 ² -nor β -reverse β -fleximers. Design, synthesis, and preliminary biological activity. <i>MedChemComm</i> , 2011, 2, 650.	3.5	18
39	5 ² -Amino-5 ² -deoxy-5 ² -noraristeromycin. <i>Journal of Organic Chemistry</i> , 1998, 63, 7092-7094.	1.7	17
40	Carbocyclic pyrimidine nucleosides as inhibitors of S-adenosylhomocysteine hydrolase. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7967-7971.	1.4	16
41	5 ² -Arylamino-uracil Derivatives: New Inhibitors of <i>Mycobacterium tuberculosis</i> . <i>Chemical Biology and Drug Design</i> , 2015, 86, 1387-1396.	1.5	16
42	Flexibility as a Strategy in Nucleoside Antiviral Drug Design. <i>Current Medicinal Chemistry</i> , 2015, 22, 3910-3921.	1.2	15
43	A Methylated Derivative of 5 ² -Noraristeromycin. <i>Journal of Organic Chemistry</i> , 1997, 62, 5645-5646.	1.7	14
44	The Importance of the 4 ² -Hydroxyl Hydrogen for the Anti-trypanosomal and Antiviral Properties of (+)-5 ² -Noraristeromycin and Two 7-Deaza Analogues. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 797-801.	1.4	14
45	A Computational Study of Expanded Heterocyclic Nucleosides in DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2008, 26, 283-292.	2.0	14
46	Scaffold hopping: Exploration of acetanilide-containing uracil analogues as potential NNRTIs. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1069-1081.	1.4	14
47	Antiproliferative activities of halogenated pyrrolo[3,2-d]pyrimidines. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4354-4363.	1.4	14
48	Carbocyclic 5 ² -Noruridine. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 269-273.	0.4	13
49	Evaluation of the antiprotozoan properties of 5 ² -norcarbocyclic pyrimidine nucleosides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3081-3086.	1.0	13
50	Probing the Effects of Pyrimidine Functional Group Switches on Acyclic Fleximer Analogues for Antiviral Activity. <i>Molecules</i> , 2019, 24, 3184.	1.7	13
51	Broad-Spectrum Antiviral Activity of 3 ² -Deoxy-3 ² -Fluoroadenosine against Emerging Flaviviruses. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	13
52	Carbocyclic Isoadenosine Analogues of Neplanocin A. <i>Organic Letters</i> , 2003, 5, 4401-4403.	2.4	12
53	Design and Synthesis of a Series of Truncated Neplanocin Fleximers. <i>Molecules</i> , 2014, 19, 21200-21214.	1.7	12
54	Bicyclic and Tricyclic β -Expanded β -Nucleobase Analogues of Sofosbuvir: New Scaffolds for Hepatitis C Therapies. <i>ACS Infectious Diseases</i> , 2015, 1, 357-366.	1.8	12

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55	Investigation of 5 TM -Norcarbocyclic Nucleoside Analogues as Antiprotozoal and Antibacterial Agents. <i>Molecules</i> , 2019, 24, 3433.	1.7	12
56	Hetero-expanded Purine Nucleosides. Design, Synthesis and Preliminary Biological Activity. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 635-636.	0.3	11
57	Structure-activity evaluation of new uracil-based non-nucleoside inhibitors of HIV reverse transcriptase. <i>MedChemComm</i> , 2013, 4, 1443.	3.5	11
58	Synthesis of 2 ² -Deoxy-9-deaza Nucleosides Using Heck Methodology. <i>Journal of Organic Chemistry</i> , 2013, 78, 7305-7311.	1.7	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. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7035-7044.	1.4	11
60	An Expedient Synthesis of Flexible Nucleosides through Enzymatic Glycosylation of Proximal and Distal Fleximer Bases. <i>ChemBioChem</i> , 2020, 21, 1412-1417.	1.3	11
61	Synthesis of 3-hetarylpyrroles by Suzuki ^{Miyaura} cross-coupling. <i>Mendeleev Communications</i> , 2020, 30, 231-232.	0.6	11
62	Carbocyclic Oxetanocins Lacking the C-3 ^{Methylene} . <i>Journal of Medicinal Chemistry</i> , 1997, 40, 1401-1406.	2.9	10
63	Carbocyclic 5 ² -norcytidine (5 ² -norcarbodine). <i>Journal of Heterocyclic Chemistry</i> , 2000, 37, 1361-1362.	1.4	10
64	"Reverse Fleximers": Introduction of a series of 5-substituted carbocyclic uridine analogues. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 571-572.	0.3	10
65	Synthetic strategies toward carbocyclic purine ^{pyrimidine} hybrid nucleosides. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 5520-5525.	1.4	10
66	5 ² -Nor carbocyclic nucleosides: unusual nonnucleoside inhibitors of HIV-1 reverse transcriptase. <i>MedChemComm</i> , 2013, 4, 741.	3.5	10
67	An Efficient Route to Novel Uracil-Based Drug-Like Molecules. <i>Synthesis</i> , 2015, 47, 1413-1422.	1.2	10
68	Synthesis of distal and proximal fleximer base analogues and evaluation in the nucleocapsid protein of HIV-1. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2883-2892.	1.4	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. <i>Tetrahedron Letters</i> , 2013, 54, 576-578.	0.7	9
70	Mitotic arrest of breast cancer MDA-MB-231 cells by a halogenated thieno[3,2- d]pyrimidine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1715-1717.	1.0	9
71	1,6-Bis[(benzyloxy)methyl]uracil derivatives ^{Novel antivirals with activity against HIV-1 and influenza H1N1 virus} . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2476-2485.	1.4	8
72	Structural and Biological Investigations for a Series of N-5 Substituted Pyrrolo[3,2-d]pyrimidines as Potential Anti-Cancer Therapeutics. <i>Molecules</i> , 2019, 24, 2656.	1.7	8

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73	Novel fleximer pyrazole-containing adenosine analogues: chemical, enzymatic and highly efficient biotechnological synthesis. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7379-7389.	1.5	8
74	Broad spectrum antiviral nucleosides—Our best hope for the future. <i>Annual Reports in Medicinal Chemistry</i> , 2021, 57, 109-132.	0.5	8
75	The Synthesis of Carbocyclic 5 ^α -Nor Thymidine and an Isomer as Oligonucleotide Monomers. <i>Nucleosides & Nucleotides</i> , 1999, 18, 1905-1910.	0.5	7
76	Design and Synthesis of a Series of Chlorinated 3-Deazaadenine Analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 2133-2144.	0.4	7
77	Novel 1-[5-(4-bromophenoxy)pentyl]-3-(2-arylamino-2-oxoethyl)uracils and their antiviral properties. <i>Mendeleev Communications</i> , 2017, 27, 85-87.	0.6	7
78	Flexibility—Not just for yoga anymore!. <i>Antiviral Chemistry and Chemotherapy</i> , 2018, 26, 204020661875678.	0.3	7
79	Anticancer Properties of Halogenated Pyrrolo[3,2- <i>id</i>]pyrimidines with Decreased Toxicity via N5 Substitution. <i>ChemMedChem</i> , 2018, 13, 178-185.	1.6	7
80	7-Deaza-5 ^α -noraristeromycin derivatives resembling L ^α -toyocamycin and L ^α -sangivamycin. <i>Journal of Heterocyclic Chemistry</i> , 1999, 36, 287-288.	1.4	6
81	Synthesis and antiviral evaluation against the Vaccinia virus of new N 1-oxide analogs of 5 ^α -noraristeromycin. <i>Russian Journal of Bioorganic Chemistry</i> , 2010, 36, 730-733.	0.3	6
82	Modified Synthesis of 3 ^α -OTBDPS-Protected Furanoid Glycal. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2012, 31, 319-327.	0.4	6
83	Meeting report: 32nd International Conference on Antiviral Research. <i>Antiviral Research</i> , 2019, 169, 104550.	1.9	6
84	Discovery, Design, Synthesis, and Application of Nucleoside/Nucleotides. <i>Molecules</i> , 2020, 25, 1526.	1.7	6
85	A Carbocyclic 7-Deazapurine-Pyrimidine Hybrid Nucleoside. <i>Collection of Czechoslovak Chemical Communications</i> , 2006, 71, 1161-1168.	1.0	4
86	Carbocyclic Thymidine Analogues for Use as Potential Therapeutic Agents. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2009, 28, 633-641.	0.4	3
87	Purification, crystallization and preliminary X-ray characterization of the human GTP fucose pyrophosphorylase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 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. <i>Antiviral Chemistry and Chemotherapy</i> , 2018, 26, 204020661878141.	0.3	2
90	Synthesis of New 5 ^α -Norcarbocyclic Aza/Deaza Purine Fleximers - Noncompetitive Inhibitors of E.coli Purine Nucleoside Phosphorylase. <i>Frontiers in Chemistry</i> , 2022, 10, .	1.8	2

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91	Small molecule antivirals “ Still our best hope for a cure. Antiviral Chemistry and Chemotherapy, 2020, 28, 204020662096396.	0.3	0