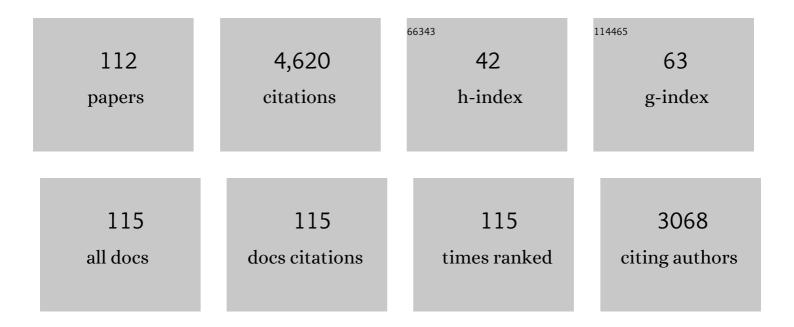
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	One-Third-the-Sites Transition-State Inhibitors for Purine Nucleoside Phosphorylaseâ€. Biochemistry, 1998, 37, 8615-8621.	2.5	254
2	The 2.0 A structure of human hypoxanthine-guanine phosphoribosyltransferase in complex with a transition-state analog inhibitor. Nature Structural Biology, 1999, 6, 588-593.	9.7	148
3	Femtomolar Transition State Analogue Inhibitors of 5′-Methylthioadenosine/S-Adenosylhomocysteine Nucleosidase from Escherichia coli. Journal of Biological Chemistry, 2005, 280, 18265-18273.	3.4	122
4	Achieving the Ultimate Physiological Goal in Transition State Analogue Inhibitors for Purine Nucleoside Phosphorylase. Journal of Biological Chemistry, 2003, 278, 31465-31468.	3.4	113
5	Targeting a Novel Plasmodium falciparum Purine Recycling Pathway with Specific Immucillins. Journal of Biological Chemistry, 2005, 280, 9547-9554.	3.4	105
6	Plasmodium falciparum Purine Nucleoside Phosphorylase. Journal of Biological Chemistry, 2004, 279, 18103-18106.	3.4	104
7	Purine-less Death in Plasmodium falciparumInduced by Immucillin-H, a Transition State Analogue of Purine Nucleoside Phosphorylase. Journal of Biological Chemistry, 2002, 277, 3226-3231.	3.4	101
8	Synthesis of Second-Generation Transition State Analogues of Human Purine Nucleoside Phosphorylase. Journal of Medicinal Chemistry, 2003, 46, 5271-5276.	6.4	100
9	Transition-state analogs as inhibitors of human and malarial hypoxanthine-guanine phosphoribosyltransferases. Nature Structural Biology, 1999, 6, 582-587.	9.7	92
10	Addition of Lithiated 9-Deazapurine Derivatives to a Carbohydrate Cyclic Imine:Â Convergent Synthesis of the Aza-C-nucleoside Immucillins. Journal of Organic Chemistry, 2001, 66, 5723-5730.	3.2	90
11	Transition State Analogue Inhibitors of Purine Nucleoside Phosphorylase from Plasmodium falciparum. Journal of Biological Chemistry, 2002, 277, 3219-3225.	3.4	89
12	Prostaglandin E2-bisphosphonate conjugates: potential agents for treatment of osteoporosis. Bioorganic and Medicinal Chemistry, 1999, 7, 901-919.	3.0	86
13	Synthesis of Transition State Analogue Inhibitors for Purine Nucleoside Phosphorylase and N-Riboside Hydrolases. Tetrahedron, 2000, 56, 3053-3062.	1.9	86
14	Exploring Structureâ^'Activity Relationships of Transition State Analogues of Human Purine Nucleoside Phosphorylase. Journal of Medicinal Chemistry, 2003, 46, 3412-3423.	6.4	80
15	Synthesis of a Targeted Library of Heparan Sulfate Hexa―to Dodecasaccharides as Inhibitors of β‧ecretase: Potential Therapeutics for Alzheimer's Disease. Chemistry - A European Journal, 2013, 19, 6817-6823.	3.3	80
16	lminoribitol Transition State Analogue Inhibitors of Protozoan Nucleoside Hydrolasesâ€. Biochemistry, 1999, 38, 13147-13154.	2.5	78
17	Azetidine Based Transition State Analogue Inhibitors of <i>N</i> -Ribosyl Hydrolases and Phosphorylases. Journal of Medicinal Chemistry, 2008, 51, 948-956.	6.4	78
18	Synthesis of transition state inhibitors for N-riboside hydrolases and transferases. Tetrahedron, 1997, 53, 2915-2930.	1.9	77

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19	Synthesis of a Transition State Analogue Inhibitor of Purine Nucleoside Phosphorylase via the Mannich Reaction. Organic Letters, 2003, 5, 3639-3640.	4.6	77
20	Syntheses and bio-activities of the l-enantiomers of two potent transition state analogue inhibitors of purine nucleoside phosphorylases. Organic and Biomolecular Chemistry, 2006, 4, 1131.	2.8	75
21	Structural Rationale for the Affinity of Pico- and Femtomolar Transition State Analogues of Escherichia coli 5′-Methylthioadenosine/S-Adenosylhomocysteine Nucleosidase. Journal of Biological Chemistry, 2005, 280, 18274-18282.	3.4	71
22	Four generations of transition-state analogues for human purine nucleoside phosphorylase. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4805-4812.	7.1	71
23	Third-Generation Immucillins: Syntheses and Bioactivities of Acyclic Immucillin Inhibitors of Human Purine Nucleoside Phosphorylase. Journal of Medicinal Chemistry, 2009, 52, 1126-1143.	6.4	68
24	The chemistry of castanospermine, part I: synthetic modifications at C-6. Tetrahedron, 1994, 50, 2131-2160.	1.9	66
25	Picomolar Transition State Analogue Inhibitors of Human 5â€~-Methylthioadenosine Phosphorylase and X-ray Structure with MT-Immucillin-Aâ€. Biochemistry, 2004, 43, 9-18.	2.5	65
26	Improved Syntheses of 3H,5H-Pyrrolo[3,2-d]pyrimidines. Journal of Organic Chemistry, 1999, 64, 8411-8412.	3.2	64
27	Picomolar Inhibitors as Transition-State Probes of 5′-Methylthioadenosine Nucleosidases. ACS Chemical Biology, 2007, 2, 725-734.	3.4	62
28	Atomic Dissection of the Hydrogen Bond Network for Transition-State Analogue Binding to Purine Nucleoside Phosphorylase. Biochemistry, 2002, 41, 14489-14498.	2.5	61
29	Structure and Inhibition of a Quorum Sensing Target fromStreptococcus pneumoniaeâ€. Biochemistry, 2006, 45, 12929-12941.	2.5	61
30	Synthesis of 5â€~-Methylthio Coformycins: Specific Inhibitors for Malarial Adenosine Deaminase. Journal of the American Chemical Society, 2007, 129, 6872-6879.	13.7	60
31	Mechanistic Diagnoses of N-Ribohydrolases and Purine Nucleoside Phosphorylase. Journal of the American Chemical Society, 1996, 118, 2111-2112.	13.7	59
32	Acyclic Immucillin Phosphonates: Second-Generation Inhibitors of Plasmodium falciparum Hypoxanthine- Guanine-Xanthine Phosphoribosyltransferase. Chemistry and Biology, 2012, 19, 721-730.	6.0	59
33	Second Generation Transition State Analogue Inhibitors of Human 5â€~-Methylthioadenosine Phosphorylase. Journal of Medicinal Chemistry, 2005, 48, 4679-4689.	6.4	58
34	Purine Nucleoside Phosphorylase fromMycobacterium tuberculosis. Analysis of Inhibition by a Transition-State Analogue and Dissection by Partsâ€. Biochemistry, 2001, 40, 8196-8203.	2.5	57
35	8-Aza-immucillins as Transition-State Analogue Inhibitors of Purine Nucleoside Phosphorylase and Nucleoside Hydrolases. Journal of Medicinal Chemistry, 2003, 46, 155-160.	6.4	54
36	Targeting the Polyamine Pathway with Transition-State Analogue Inhibitors of 5â€~-Methylthioadenosine Phosphorylase. Journal of Medicinal Chemistry, 2004, 47, 3275-3281.	6.4	53

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37	Energetic Mapping of Transition State Analogue Interactions with Human and Plasmodium falciparum Purine Nucleoside Phosphorylases. Journal of Biological Chemistry, 2005, 280, 30320-30328.	3.4	51
38	A Picomolar Transition State Analogue Inhibitor of MTAN as a Specific Antibiotic for <i>Helicobacter pylori</i> . Biochemistry, 2012, 51, 6892-6894.	2.5	51
39	Imino-Sugar-Based Nucleosides. Current Topics in Medicinal Chemistry, 2003, 3, 525-540.	2.1	51
40	Total synthesis of (.+)-thielocin A1.beta.: a novel inhibitor of phospholipase A2. Journal of the American Chemical Society, 1994, 116, 759-760.	13.7	50
41	Immucillins in Infectious Diseases. ACS Infectious Diseases, 2018, 4, 107-117.	3.8	49
42	Inhibitors of ADP-Ribosylating Bacterial Toxins Based on Oxacarbenium Ion Character at Their Transition States. Journal of the American Chemical Society, 2004, 126, 5690-5698.	13.7	45
43	The chemistry of castanospermine, part V: synthetic modifications at C-1 and C-7. Tetrahedron, 1997, 53, 245-268.	1.9	41
44	New Antibiotic Candidates against <i>Helicobacter pylori</i> . Journal of the American Chemical Society, 2015, 137, 14275-14280.	13.7	41
45	Transition state analogue inhibitors of protozoan nucleoside hydrolases. Bioorganic and Medicinal Chemistry, 1999, 7, 2599-2606.	3.0	40
46	Acyclic Ribooxacarbenium Ion Mimics as Transition State Analogues of Human and Malarial Purine Nucleoside Phosphorylases. Journal of the American Chemical Society, 2007, 129, 6984-6985.	13.7	40
47	Total synthesis and stereochemical identity of the C18H32O5 degradation product from boromycin. Journal of the American Chemical Society, 1981, 103, 6243-6246.	13.7	39
48	Inhibition and Structure ofTrichomonas vaginalisPurine Nucleoside Phosphorylase with Picomolar Transition State Analoguesâ€. Biochemistry, 2007, 46, 659-668.	2.5	39
49	Design and Synthesis of Potent "Sulfur-Free―Transition State Analogue Inhibitors of 5′-Methylthioadenosine Nucleosidase and 5′-Methylthioadenosine Phosphorylase. Journal of Medicinal Chemistry, 2010, 53, 6730-6746.	6.4	39
50	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481.	12.8	39
51	Ricin A-Chain Inhibitors Resembling the Oxacarbenium Ion Transition Stateâ€. Biochemistry, 2001, 40, 6845-6851.	2.5	38
52	Imino-C-nucleoside Synthesis:Â Heteroaryl Lithium Carbanion Additions to a Carbohydrate Cyclic Imine and Nitrone. Journal of Organic Chemistry, 2004, 69, 2217-2220.	3.2	37
53	Observations on the possible application of glycosyl disulphides, sulphenic esters, and sulphones in the synthesis of glycosides. Carbohydrate Research, 1977, 58, 397-404.	2.3	36
54	Transition State Analogue Discrimination by Related Purine Nucleoside Phosphorylases. Journal of the American Chemical Society, 2006, 128, 7126-7127.	13.7	36

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55	Acyclic phosph(on)ate inhibitors of Plasmodium falciparum hypoxanthine-guanine-xanthine phosphoribosyltransferase. Bioorganic and Medicinal Chemistry, 2013, 21, 5629-5646.	3.0	34
56	Singleâ€Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. Angewandte Chemie - International Edition, 2015, 54, 2718-2723.	13.8	34
57	New syntheses of 1d- and 1l-1,2-anhydro-myo-inositol and assessment of their glycosidase inhibitory activities. Carbohydrate Research, 2000, 329, 301-308.	2.3	32
58	Mechanism-based inactivator of isocitrate lyases 1 and 2 from <i>Mycobacterium tuberculosis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7617-7622.	7.1	32
59	Reaction of lithium dimethylcuprate with conformationally biased β-acyloxy enol esters - regio and stereocontrolled access to functionalized six-carbon chiral synthons. Tetrahedron Letters, 1981, 22, 4583-4586.	1.4	31
60	Synthesis of 1,5-dideoxy-1,5-imino-d-galactitol from l-sorbose. Tetrahedron Letters, 1993, 34, 3609-3612.	1.4	28
61	The Chemistry of Castanospermine, Part IV1: Synthetic Modifications at C-8. Tetrahedron, 1995, 51, 12611-12630.	1.9	28
62	Dendrimer Heparan Sulfate Glycomimetics: Potent Heparanase Inhibitors for Anticancer Therapy. ACS Chemical Biology, 2018, 13, 3236-3242.	3.4	28
63	Stereoselective Total Synthesis of (±)-Thielocin Alβ. Journal of the American Chemical Society, 2001, 123, 11381-11387.	13.7	26
64	A short practical synthesis of deoxymannojirimycin from d-fructose. Tetrahedron Letters, 1993, 34, 3613-3616.	1.4	24
65	<scp>l</scp> -Enantiomers of Transition State Analogue Inhibitors Bound to Human Purine Nucleoside Phosphorylase. Journal of the American Chemical Society, 2008, 130, 842-844.	13.7	23
66	The chemistry of castanospermine, part II: Synthesis of deoxyfluoro analogues of castanospermine. Tetrahedron Letters, 1994, 35, 3143-3146.	1.4	21
67	Synthesis and utility of sulfated chromogenic carbohydrate model substrates for measuring activities of mucin-desulfating enzymes. Carbohydrate Research, 2002, 337, 1095-1111.	2.3	21
68	Transition-State Interactions Revealed in Purine Nucleoside Phosphorylase by Binding Isotope Effects. Journal of the American Chemical Society, 2008, 130, 2166-2167.	13.7	21
69	Entropy-Driven Binding of Picomolar Transition State Analogue Inhibitors to Human 5′-Methylthioadenosine Phosphorylase. Biochemistry, 2011, 50, 10408-10417.	2.5	21
70	Immucillins ImmA and ImmH Are Effective and Non-toxic in the Treatment of Experimental Visceral Leishmaniasis. PLoS Neglected Tropical Diseases, 2015, 9, e0004297.	3.0	21
71	A practical synthesis of (3R,4R)-N-tert-butoxycarbonyl-4-hydroxymethylpyrrolidin-3-ol. Organic and Biomolecular Chemistry, 2007, 5, 2800.	2.8	20
72	Composition, Sequencing and Ion Mobility Mass Spectrometry of Heparan Sulfate-like Octasaccharide Isomers Differing in Glucuronic and Iduronic Acid Content. European Journal of Mass Spectrometry, 2015, 21, 245-254.	1.0	20

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73	Stereoselective Total Synthesis of Aminoiminohexitols via Carbamate Annulation. Journal of Organic Chemistry, 2011, 76, 9611-9621.	3.2	19
74	Total synthesis of the C-3 – C-17 segment of boromycin. Canadian Journal of Chemistry, 1983, 61, 634-637.	1.1	18
75	Transition State Analogues of Plasmodium falciparum and Human Orotate Phosphoribosyltransferases. Journal of Biological Chemistry, 2013, 288, 34746-34754.	3.4	18
76	The chemistry of castanospermine, part III:1,2 Castanospermine-6-phosphate, an unusual route to a novel compound. Tetrahedron Letters, 1995, 36, 3055-3058.	1.4	17
77	Salmonella enterica MTAN at 1.36ÂÃ Resolution: A Structure-Based Design of Tailored Transition State Analogs. Structure, 2013, 21, 963-974.	3.3	17
78	Inhibition and Structure of Toxoplasma gondii Purine Nucleoside Phosphorylase. Eukaryotic Cell, 2014, 13, 572-579.	3.4	16
79	Using automated glycan assembly (AGA) for the practical synthesis of heparan sulfate oligosaccharide precursors. Organic and Biomolecular Chemistry, 2019, 17, 1817-1821.	2.8	15
80	The Immucillins: Design, Synthesis and Application of Transition- State Analogues. Current Medicinal Chemistry, 2015, 22, 3897-3909.	2.4	15
81	Immucillins in custom catalytic-site cavities. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5900-5903.	2.2	14
82	Methylthioadenosine Deaminase in an Alternative Quorum Sensing Pathway in <i>Pseudomonas aeruginosa</i> . Biochemistry, 2012, 51, 9094-9103.	2.5	14
83	Transition State Analogue Inhibitors of 5′-Deoxyadenosine/5′-Methylthioadenosine Nucleosidase from <i>Mycobacterium tuberculosis</i> . Biochemistry, 2017, 56, 5090-5098.	2.5	14
84	The transition to magic bullets – transition state analogue drug design. MedChemComm, 2018, 9, 1983-1993.	3.4	14
85	Immucillins Impair Leishmania (L.) infantum chagasi and Leishmania (L.) amazonensis Multiplication In Vitro. PLoS ONE, 2015, 10, e0124183.	2.5	14
86	New mannotriosides and trimannosides as potential ligands for mannose-specific binding proteins. Canadian Journal of Chemistry, 2002, 80, 964-972.	1.1	13
87	Transition state analogue inhibitors of human methylthioadenosine phosphorylase and bacterial methylthioadenosine/S-adenosylhomocysteine nucleosidase incorporating acyclic ribooxacarbenium ion mimics. Bioorganic and Medicinal Chemistry, 2012, 20, 5181-5187.	3.0	12
88	Transition State Analysis of Adenosine Triphosphate Phosphoribosyltransferase. ACS Chemical Biology, 2017, 12, 2662-2670.	3.4	12
89	Synthesis and photolysis of some carbohydrate 1,6-dienes. Carbohydrate Research, 1985, 136, 249-258.	2.3	11
90	Syntheses of novel azasugar-containing mimics of heparan sulfate fragments as potential heparanase inhibitors. Carbohydrate Research, 2010, 345, 1831-1841.	2.3	11

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91	Tight binding enantiomers of pre-clinical drug candidates. Bioorganic and Medicinal Chemistry, 2015, 23, 5326-5333.	3.0	11
92	Transition-State Analogues of <i>Campylobacter jejuni</i> 5′-Methylthioadenosine Nucleosidase. ACS Chemical Biology, 2018, 13, 3173-3183.	3.4	11
93	Inhibition of Clostridium difficile TcdA and TcdB toxins with transition state analogues. Nature Communications, 2021, 12, 6285.	12.8	11
94	Selective Inhibitors of <i>Helicobacter pylori</i> Methylthioadenosine Nucleosidase and Human Methylthioadenosine Phosphorylase. Journal of Medicinal Chemistry, 2019, 62, 3286-3296.	6.4	10
95	2-Benzyloxy-6,8-Dioxabicyclo[3.2.1]Octanes: New carbohydrate-derived herbicides. Pest Management Science, 1991, 31, 419-435.	0.4	9
96	Continuous Fluorescence Assays for Reactions Involving Adenine. Analytical Chemistry, 2016, 88, 11860-11867.	6.5	9
97	An evaluation of the herbicidal and plant growth regulatory activity of a novel class of carbohydrate-derived 6,8-dioxabicyclo[3.2.1]octanes. Pest Management Science, 1990, 30, 59-66.	0.4	8
98	The chemistry of castanospermine. Direct oxidation of the tetraacetate to the corresponding γ-lactam. Carbohydrate Research, 2004, 339, 1747-1751.	2.3	6
99	Aspects of the tautomerism of 2-(d-galacto-1,2,3,4,5-pentahydroxypentyl)benzothiazoline. Carbohydrate Research, 1977, 54, 199-208.	2.3	4
100	Transition State Analogues Enhanced by Fragment-Based Structural Analysis: Bacterial Methylthioadenosine Nucleosidases. Biochemistry, 2020, 59, 831-835.	2.5	4
101	Comparison of disaccharide donors for heparan sulfate synthesis: uronic acids <i>vs.</i> their pyranose equivalents. Organic and Biomolecular Chemistry, 2020, 18, 4728-4733.	2.8	3
102	Translationally related nearly identical molecules: 4-methoxyphenyl 4-O-[6-O-acetyl-2-azido-3-O-benzyl-2-deoxy-4-O-(fluoren-9-ylmethoxycarbonyl)-α-D-glucopyranosyl]-2-O-benzoyl Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 679-682.	-3- <b>0:</b> benz	yl-62O-chloroa
103	Oligonucleotide transition state analogues of saporin L3. European Journal of Medicinal Chemistry, 2017, 127, 793-809.	5.5	2
104	Diastereoselective Carbamate Annulation for the Synthesis of 2,5â€Dideoxyâ€2,5â€iminoglycitols. ChemistrySelect, 2017, 2, 8028-8032.	1.5	2
105	Synthesis and Characterization of Transition-State Analogue Inhibitors against Human DNA Methyltransferase 1. Journal of Medicinal Chemistry, 2022, 65, 5462-5494.	6.4	2
106	Synthesis of deuterated-BCX-1777, a potent inhibitor of purine nucleoside phosphorylase. Journal of Labelled Compounds and Radiopharmaceuticals, 2002, 45, 71-78.	1.0	1
107	(1R,2R,3S,5R,6R,7S,9aR,10aR)-4a,8a-Diazaperhydroanthracene-1,2,3,5,6,7-hexaol. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1370-o1371.	0.2	1
108	tert-Butyl 6-O-benzyl-2,2-dichloro-2,5-dideoxy-4-O-methyl-α-D-ribo-oct-3-pyranulosonate. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1514-o1516.	0.2	1

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109	The synthesis of possible transition state analogue inhibitors of thymidine phosphorylase. Tetrahedron Letters, 2015, 56, 406-409.	1.4	1
110	Aminofutalosine Deaminase in the Menaquinone Pathway of Helicobacter pylori. Biochemistry, 2021, 60, 1933-1946.	2.5	1
111	Crystal packing in three related disaccharides: precursors to heparan sulfate oligosaccharides. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 582-587.	0.5	1
112	p-Tolyl 2-O-benzoyl-3-O-benzyl-4,6-O-benzylidene-1-thio-α-L-idopyranoside. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1598-o1599.	0.2	0