Jon S Thorson

List of Publications by Year
in descending order

198 papers	10,824 citations	25014 57 h-index	39638 94 g-index
214 all docs	214 docs citations	214 times ranked	7135 citing authors

#	Article	IF	Citations
1	Diverse polyketides from the marine endophytic Alternaria sp. LV52: Structure determination and cytotoxic activities. Biotechnology Reports (Amsterdam, Netherlands), 2022, 33, e00628.	2.1	10
2	The crystal structure of DynF from the dynemicin-biosynthesis pathway of <i>Micromonospora chersina</i>. Acta Crystallographica Section F, Structural Biology Communications, 2022, 78, 1-7.	0.4	1
3	RF-3192C and other polyketides from the marine endophytic Aspergillus niger ASSB4: structure assignment and bioactivity investigation. Medicinal Chemistry Research, 2021, 30, 647-654.	1.1	6
4	The crystal structure of <scp>AbsH3</scp>: A putative flavin adenine dinucleotideâ€dependent reductase in the abyssomicin biosynthesis pathway. Proteins: Structure, Function and Bioinformatics, 2021, 89, 132-137.	1.5	1
5	Chemical genetics of regeneration: Contrasting temporal effects of CoCl 2 on axolotl tail regeneration. Developmental Dynamics, 2021, 250, 852-865.	0.8	5
6	Taxonomic and Metabolomics Profiling of Actinobacteria Strains from Himalayan Collection Sites in Pakistan. Current Microbiology, 2021, 78, 3044-3057.	1.0	6
7	Himalaquinones Aâ€“G, Angucyclinone-Derived Metabolites Produced by the Himalayan Isolate <i>Streptomyces</i> sp. PU-MM59. Journal of Natural Products, 2021, 84, 1930-1940.	1.5	7
8	Enzyme-mediated bioorthogonal technologies: catalysts, chemoselective reactions and recent methyltransferase applications. Current Opinion in Biotechnology, 2021, 69, 290-298.	3.3	11
9	Endophytes of Brazilian Medicinal Plants With Activity Against Phytopathogens. Frontiers in Microbiology, 2021, 12, 714750.	1.5	13
10	Structural characterization of DynU16, a START/Bet v1-like protein involved in dynemicin biosynthesis. Acta Crystallographica Section F, Structural Biology Communications, 2021, 77, 328-333.	0.4	1
11	Metal-free domino amination-Knoevenagel condensation approach to access new coumarins as potent nanomolar inhibitors of VEGFR-2 and EGFR. Green Chemistry Letters and Reviews, 2021, 14, 578-599.	2.1	3
12	Structure and Function of a Dual Reductaseâ€“Dehydratase Enzyme System Involved in <i>p</i>-Terphenyl Biosynthesis. ACS Chemical Biology, 2021, 16, 2816-2824.	1.6	8
13	Enzymatic C_{Î²}â€“H Functionalization of <scp>l</scp>-Arg and <scp>l</scp>-Leu in Nonribosomally Derived Peptidyl Natural Products: A Tale of Two Oxidoreductases. Journal of the American Chemical Society, 2021, 143, 19425-19437.	6.6	6
14	HDAC Inhibitor Titration of Transcription and Axolotl Tail Regeneration. Frontiers in Cell and Developmental Biology, 2021, 9, 767377.	1.8	3
15	Dihydroisocoumarins produced by Diaporthe cf. heveae LGMF1631 inhibiting citrus pathogens. Folia Microbiologica, 2020, 65, 381-392.	1.1	5
16	OleD Loki as a Catalyst for Hydroxamate Glycosylation. ChemBioChem, 2020, 21, 952-957.	1.3	4
17	Mithramycin 2â€²-Oximes with Improved Selectivity, Pharmacokinetics, and Ewing Sarcoma Antitumor Efficacy. Journal of Medicinal Chemistry, 2020, 63, 14067-14086.	2.9	8
18	Pyridoxal-5â€²-phosphate-dependent alkyl transfer in nucleoside antibiotic biosynthesis. Nature Chemical Biology, 2020, 16, 904-911.	3.9	24

#	Article	IF	Citations
19	Methionine Adenosyltransferase Engineering to Enable Bioorthogonal Platforms for AdoMet-Utilizing Enzymes. ACS Chemical Biology, 2020, 15, 695-705.	1.6	20
20	Sugar-Pirating as an Enabling Platform for the Synthesis of 4,6-Dideoxyhexoses. Journal of the American Chemical Society, 2020, 142, 9389-9395.	6.6	7
21	Vochysiamides A and B: Two new bioactive carboxamides produced by the new species Diaporthe vochysiae. FÃ¬toterapÃ¬Ã¢, 2019, 138, 104273.	1.1	27
22	Biosynthetic and Synthetic Strategies for Assembling Capuramycin-Type Antituberculosis Antibiotics. Molecules, 2019, 24, 433.	1.7	12
23	Frenolicin B Targets Peroxiredoxin 1 and Glutaredoxin 3 to Trigger ROS/4E-BP1-Mediated Antitumor Effects. Cell Chemical Biology, 2019, 26, 366-377.e12.	2.5	31
24	Baraphenazines Aâ€"G, Divergent Fused Phenazine-Based Metabolites from a Himalayan <i>Streptomyces</i>. Journal of Natural Products, 2019, 82, 1686-1693.	1.5	25
25	Total synthesis of griseusins and elucidation of the griseusin mechanism of action. Chemical Science, 2019, 10, 7641-7648.	3.7	13
26	HDAC Regulates Transcription at the Outset of Axolotl Tail Regeneration. Scientific Reports, 2019, 9, 6751.	1.6	17
27	Spore forming Actinobacterial diversity of Cholistan Desert Pakistan: Polyphasic taxonomy, antimicrobial potential and chemical profiling. BMC Microbiology, 2019, 19, 49.	1.3	18
28	Secondary metabolites produced by the citrus phytopathogen Phyllosticta citricarpa. Journal of Antibiotics, 2019, 72, 306-310.	1.0	11
29	Structure Determination, Functional Characterization, and Biosynthetic Implications of Nybomycin Metabolites from a Mining Reclamation Site-Associated <i>Streptomyces</i>. Journal of Natural Products, 2019, 82, 3469-3476.	1.5	12
30	Secondary metabolites produced by Microbacterium sp. LGMB471 with antifungal activity against the phytopathogen Phyllosticta citricarpa. Folia Microbiologica, 2019, 64, 453-460.	1.1	16
31	Insights into the Target Interaction of Naturally Occurring Muraymycin Nucleoside Antibiotics. ChemMedChem, 2018, 13, 779-784.	1.6	28
32	Bioprospecting of Diaporthe terebinthifolii LGMF907 for antimicrobial compounds. Folia Microbiologica, 2018, 63, 499-505.	1.1	28
33	Phaeophleospora vochysiae Savi & Glienke sp. nov. Isolated from Vochysia divergens Found in the Pantanal, Brazil, Produces Bioactive Secondary Metabolites. Scientific Reports, 2018, 8, 3122.	1.6	17
34	Antibacterial Muraymycins from Mutant Strains of <i>Streptomyces</i> sp. NRRL 30471. Journal of Natural Products, 2018, 81, 942-948.	1.5	26
35	Puromycins Bâ€"E, Naturally Occurring Amino-Nucleosides Produced by the Himalayan Isolate <i>Streptomyces</i> sp. PU-14G. Journal of Natural Products, 2018, 81, 2560-2566.	1.5	16
36	Enzymatic Synthesis of the Ribosylated Glycyl-Uridine Disaccharide Core of Peptidyl Nucleoside Antibiotics. Journal of Organic Chemistry, 2018, 83, 7239-7249.	1.7	11

#	ARTICLE	IF	CITATIONS
37	Self-Resistance during Muraymycin Biosynthesis: a Complementary Nucleotidyltransferase and Phosphotransferase with Identical Modification Sites and Distinct Temporal Order. Antimicrobial Agents and Chemotherapy, 2018, 62, .	1.4	16
38	Mccrearamycins Aâ€“D, Geldanamycinâ€Derived Cyclopentenone Macrolactams from an Eastern Kentucky Abandoned Coal Mine Microbe. Angewandte Chemie - International Edition, 2017, 56, 2994-2998.	7.2	31
39	OleD Loki as a Catalyst for Tertiary Amine and Hydroxamate Glycosylation. ChemBioChem, 2017, 18, 363-367.	1.3	4
40	Mccrearamycins Aâ€“D, Geldanamycinâ€Derived Cyclopentenone Macrolactams from an Eastern Kentucky Abandoned Coal Mine Microbe. Angewandte Chemie, 2017, 129, 3040-3044.	1.6	4
41	Structure and specificity of a permissive bacterial C-prenyltransferase. Nature Chemical Biology, 2017, 13, 366-368.	3.9	50
42	Bi- and Tetracyclic Spirotetronates from the Coal Mine Fire Isolate <i>Streptomyces</i> sp. LC-6-2. Journal of Natural Products, 2017, 80, 1141-1149.	1.5	32
43	Spoxazomicin D and Oxachelin C, Potent Neuroprotective Carboxamides from the Appalachian Coal Fire-Associated Isolate <i>Streptomyces</i> sp. RM-14-6. Journal of Natural Products, 2017, 80, 2-11.	1.5	45
44	Identification of Neuroprotective Spoxazomicin and Oxachelin Glycosides via Chemoenzymatic Glycosyl-Scanning. Journal of Natural Products, 2017, 80, 12-18.	1.5	6
45	Antibacterial Activity of Endophytic Actinomycetes Isolated from the Medicinal Plant Vochysia divergens (Pantanal, Brazil). Frontiers in Microbiology, 2017, 8, 1642.	1.5	60
46	Loop dynamics of thymidine diphosphate-rhamnose 3â€²-O-methyltransferase (CalS11), an enzyme in calicheamicin biosynthesis. Structural Dynamics, 2016, 3, 012004.	0.9	5
47	Functional AdoMet Isosteres Resistant to Classical AdoMet Degradation Pathways. ACS Chemical Biology, 2016, 11, 2484-2491.	1.6	36
48	AdoMet analog synthesis and utilization: current state of the art. Current Opinion in Biotechnology, 2016, 42, 189-197.	3.3	66
49	Antibacterial and Cytotoxic Actinomycins Y₆â€“Y₉ and Zp from <i>Streptomyces</i> sp. Strain GÃ¶-GS12. Journal of Natural Products, 2016, 79, 2731-2739.	1.5	39
50	Extracellular Antibody Drug Conjugates Exploiting the Proximity of Two Proteins. Molecular Therapy, 2016, 24, 1760-1770.	3.7	24
51	Structural dynamics of a methionine Î³-lyase for calicheamicin biosynthesis: Rotation of the conserved tyrosine stacking with pyridoxal phosphate. Structural Dynamics, 2016, 3, 034702.	0.9	4
52	Characterization of Early Enzymes Involved in TDPâ€Aminodideoxypentose Biosynthesis en Route to Indolocarbazole AT2433. ChemBioChem, 2015, 16, 2141-2146.	1.3	6
53	Structural characterization of AtmS13, a putative sugar aminotransferase involved in indolocarbazole AT2433 aminopentose biosynthesis. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1547-1554.	1.5	10
54	A Divergent Enantioselective Strategy for the Synthesis of Griseusins. Angewandte Chemie - International Edition, 2015, 54, 11219-11222.	7.2	22

#	Article	IF	Citations
55	Strukturelle Charakterisierung von Oâ€•und Câ€glycosylierenden Varianten der Landomycinâ€Glycosyltransferase LanGT2. Angewandte Chemie, 2015, 127, 2853-2857.	1.6	4
56	Structural Basis for the Stereochemical Control of Amine Installation in Nucleotide Sugar Aminotransferases. ACS Chemical Biology, 2015, 10, 2048-2056.	1.6	12
57	Structural Characterization of CalS8, a TDP-Î±-d-Glucose Dehydrogenase Involved in Calicheamicin Aminodideoxypentose Biosynthesis. Journal of Biological Chemistry, 2015, 290, 26249-26258.	1.6	5
58	A comprehensive review of glycosylated bacterial natural products. Chemical Society Reviews, 2015, 44, 7591-7697.	18.7	347
59	The Biosynthesis of Capuramycin-type Antibiotics. Journal of Biological Chemistry, 2015, 290, 13710-13724.	1.6	28
60	Using Ambystoma mexicanum (Mexican axolotl) embryos, chemical genetics, and microarray analysis to identify signaling pathways associated with tissue regeneration. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2015, 178, 128-135.	1.3	36
61	Cytotoxic Indolocarbazoles from <i>Actinomadura melliaura</i> ATCC 39691. Journal of Natural Products, 2015, 78, 1723-1729.	1.5	37
62	Structural Characterization of Oâ€•and Câ€Glycosylating Variants of the Landomycin Glycosyltransferase LanGT2. Angewandte Chemie - International Edition, 2015, 54, 2811-2815.	7.2	26
63	Terfestatins B and C, New <i>p</i>-Terphenyl Glycosides Produced by <i>Streptomyces</i> sp. RM-5â€“8. Organic Letters, 2015, 17, 2796-2799.	2.4	42
64	Influence of Sugar Amine Regiochemistry on Digitoxigenin Neoglycoside Anticancer Activity. ACS Medicinal Chemistry Letters, 2015, 6, 1053-1058.	1.3	21
65	Microbispora sp. LGMB259 Endophytic Actinomycete Isolated from Vochysia divergens (Pantanal,) Tj ETQq1 1 0.784314 rgBT /Overlo 345-354.	1.0	40
66	The native production of the sesquiterpene isopterocarpolone by<i>Streptomyces</i>sp. RM-14-6. Natural Product Research, 2014, 28, 337-339.	1.0	17
67	A Simple Strategy for Glycosyltransferaseâ€Catalyzed Aminosugar Nucleotide Synthesis. ChemBioChem, 2014, 15, 647-651.	1.3	18
68	Venturicidin C, a new 20-membered macrolide produced by Streptomyces sp. TS-2-2. Journal of Antibiotics, 2014, 67, 223-230.	1.0	33
69	Characterization of the Calicheamicin Orsellinate C2â€‹<i>O</i>â€Methyltransferase CalO6. ChemBioChem, 2014, 15, 1418-1421.	1.3	10
70	Facile Chemoenzymatic Strategies for the Synthesis and Utilization of <i>S</i>â€Adenosylâ€‹<scp>L</scp>â€Methionine Analogues. Angewandte Chemie - International Edition, 2014, 53, 3965-3969.	7.2	120
71	Ruthmycin, a New Tetracyclic Polyketide from Streptomyces sp. RM-4-15. Organic Letters, 2014, 16, 456-459.	2.4	23
72	Mullinamides A and B, new cyclopeptides produced by the Ruth Mullins coal mine fire isolate Streptomyces sp. RM-27-46. Journal of Antibiotics, 2014, 67, 571-575.	1.0	31

#	Article	IF	Citations
73	Understanding molecular recognition of promiscuity of thermophilic methionine adenosyltransferase s<scp>MAT</scp> from <i>SulfolobusÂsolfataricus</i>. FEBS Journal, 2014, 281, 4224-4239.	2.2	36
74	The Identification of Perillyl Alcohol Glycosides with Improved Antiproliferative Activity. Journal of Medicinal Chemistry, 2014, 57, 7478-7484.	2.9	24
75	Functionalized Anodic Aluminum Oxide Membraneâ€"Electrode System for Enzyme Immobilization. ACS Nano, 2014, 8, 8104-8112.	7.3	22
76	Structure-Guided Functional Characterization of Enediyne Self-Sacrifice Resistance Proteins, CalU16 and CalU19. ACS Chemical Biology, 2014, 9, 2347-2358.	1.6	24
77	A General NMR-Based Strategy for the in Situ Characterization of Sugar-Nucleotide-Dependent Biosynthetic Pathways. Organic Letters, 2014, 16, 3220-3223.	2.4	9
78	Neoglycosylation and neoglycorandomization: enabling tools for the discovery of novel glycosylated bioactive probes and early stage leads. MedChemComm, 2014, 5, 1036-1047.	3.5	44
79	Frenolicins Câ€"G, Pyranonaphthoquinones from <i>Streptomyces</i> sp. RM-4-15. Journal of Natural Products, 2013, 76, 1441-1447.	1.5	62
80	Synthesis and Antibacterial Activity of Doxycycline Neoglycosides. Journal of Natural Products, 2013, 76, 1627-1636.	1.5	14
81	A Diastereoselective Oxa-Pictetâ€"Spengler-Based Strategy for (+)-Frenolicin B and <i>epi</i>-(+)-Frenolicin B Synthesis. Organic Letters, 2013, 15, 5566-5569.	2.4	30
82	Herbimycins Dâ€"F, Ansamycin Analogues from <i>Streptomyce</i>s sp. RM-7-15. Journal of Natural Products, 2013, 76, 1619-1626.	1.5	37
83	Assessing the Regioselectivity of OleD-Catalyzed Glycosylation with a Diverse Set of Acceptors. Journal of Natural Products, 2013, 76, 279-286.	1.5	54
84	Structural and Functional Characterization of CalS11, a TDP-Rhamnose 3â€²-<i>O</i>-Methyltransferase Involved in Calicheamicin Biosynthesis. ACS Chemical Biology, 2013, 8, 1632-1639.	1.6	12
85	Broadening the scope of glycosyltransferase-catalyzed sugar nucleotide synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7648-7653.	3.3	88
86	Crystal structure of SsfS6, the putative <i>C</i>â€glycosyltransferase involved in SF2575 biosynthesis. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1277-1282.	1.5	24
87	High-Throughput Colorimetric Assays for Nucleotide Sugar Formation and Glycosyl Transfer. Methods in Enzymology, 2012, 516, 345-360.	0.4	7
88	Enhancement of Cyclopamine via Conjugation with Nonmetabolic Sugars. Organic Letters, 2012, 14, 2454-2457.	2.4	24
89	Natural Product Disaccharide Engineering through Tandem Glycosyltransferase Catalysis Reversibility and Neoglycosylation. Organic Letters, 2012, 14, 5086-5089.	2.4	34
90	Probing the Regiospecificity of Enzyme-Catalyzed Steroid Glycosylation. Organic Letters, 2012, 14, 5424-5427.	2.4	35

#	Article	IF	Citations
91	The structural biology of enzymes involved in natural product glycosylation. Natural Product Reports, 2012, 29, 1201.	5.2	99
92	Expanding nature's chemical repertoire through metabolic engineering and biocatalysis. Current Opinion in Chemical Biology, 2012, 16, 99-100.	2.8	6
93	Asymmetric Enzymatic Glycosylation of Mitoxantrone. Organic Letters, 2011, 13, 2786-2788.	2.4	26
94	Using simple donors to drive the equilibria of glycosyltransferase-catalyzed reactions. Nature Chemical Biology, 2011, 7, 685-691.	3.9	113
95	Recombinant <i>E. coli</i> Prototype Strains for <i>in Vivo</i> Glycorandomization. ACS Chemical Biology, 2011, 6, 95-100.	1.6	59
96	Enzymatic methods for glyco(diversification/randomization) of drugs and small molecules. Natural Product Reports, 2011, 28, 1811.	5.2	214
97	Glycosyltransferase structural biology and its role in the design of catalysts for glycosylation. Current Opinion in Biotechnology, 2011, 22, 800-808.	3.3	136
98	Development of a universal glycosyltransferase assay amenable to high-throughput formats. Analytical Biochemistry, 2011, 418, 85-88.	1.1	23
99	Structural characterization of CalO1: a putative orsellinic acid methyltransferase in the calicheamicin-biosynthetic pathway. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 197-203.	2.5	16
100	Structural characterization of the mitomycin 7â€<i>O</i>â€methyltransferase. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2181-2188.	1.5	26
101	Glycosyloxyamine Neoglycosylation: A Model Study Using Calicheamicin. ChemMedChem, 2011, 6, 774-776.	1.6	11
102	Warfarin Glycosylation Invokes a Switch from Anticoagulant to Anticancer Activity. ChemMedChem, 2011, 6, 1347-1350.	1.6	28
103	Expanding the Nucleotide and Sugar 1-Phosphate Promiscuity of Nucleotidyltransferase RmlA via Directed Evolution. Journal of Biological Chemistry, 2011, 286, 13235-13243.	1.6	37
104	Complete set of glycosyltransferase structures in the calicheamicin biosynthetic pathway reveals the origin of regiospecificity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17649-17654.	3.3	47
105	Polyketide synthase chemistry does not direct biosynthetic divergence between 9- and 10-membered enediynes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11331-11335.	3.3	51
106	Assessment of Chemoselective Neoglycosylation Methods Using Chlorambucil as a Model. Journal of Medicinal Chemistry, 2010, 53, 8129-8139.	2.9	50
107	Natural Product Glycosyltransferases: Properties and Applications. Advances in Enzymology and Related Areas of Molecular Biology, 2009, 76, 55-119.	1.3	38
108	Structural characterization of CalO2: A putative orsellinic acid P450 oxidase in the calicheamicin biosynthetic pathway. Proteins: Structure, Function and Bioinformatics, 2009, 74, 50-60.	1.5	27

#	Article	IF	Citations
109	Enhancing the Divergent Activities of Betulinic Acid via Neoglycosylation. Organic Letters, 2009, 11, 461-464.	2.4	39
110	The structure of flavinâ€dependent tryptophan 7â€halogenase RebH. Proteins: Structure, Function and Bioinformatics, 2008, 70, 289-293.	1.5	89
111	The in vitro Characterization of Polyene Glycosyltransferases AmphDI and NysDI. ChemBioChem, 2008, 9, 2506-2514.	1.3	27
112	Probing the Aglycon Promiscuity of an Engineered Glycosyltransferase. Angewandte Chemie - International Edition, 2008, 47, 8889-8892.	7.2	118
113	A comparison of sugar indicators enables a universal high-throughput sugar-1-phosphate nucleotidyltransferase assay. Analytical Biochemistry, 2008, 377, 251-258.	1.1	60
114	Increasing carbohydrate diversity via amine oxidation: aminosugar, hydroxyaminosugar, nitrososugar, and nitrosugar biosynthesis in bacteria. Current Opinion in Chemical Biology, 2008, 12, 297-305.	2.8	40
115	The impact of enzyme engineering upon natural product glycodiversification. Current Opinion in Chemical Biology, 2008, 12, 556-564.	2.8	91
116	Optimizing Glycosyltransferase Specificity via â€œHot Spotâ€• Saturation Mutagenesis Presents a Catalyst for Novobiocin Glycorandomization. Chemistry and Biology, 2008, 15, 393-401.	6.2	88
117	Biochemical and Structural Insights of the Early Glycosylation Steps in Calicheamicin Biosynthesis. Chemistry and Biology, 2008, 15, 842-853.	6.2	51
118	The biosynthetic genes encoding for the production of the dynemicin enediyne core inMicromonospora chersinaATCC53710. FEMS Microbiology Letters, 2008, 282, 105-114.	0.7	68
119	A high-throughput fluorescence-based glycosyltransferase screen and its application in directed evolution. Nature Protocols, 2008, 3, 357-362.	5.5	51
120	Characterization of CalE10, the<i>N</i>-Oxidase Involved in Calicheamicin Hydroxyaminosugar Formation. Journal of the American Chemical Society, 2008, 130, 17662-17663.	6.6	21
121	Targeted Chemical Wedges Reveal the Role of Allosteric DNA Modulation in Proteinâˆ'DNA Assembly. ACS Chemical Biology, 2008, 3, 220-229.	1.6	47
122	Structure and Mechanism of the Rebeccamycin Sugar 4â€²-O-Methyltransferase RebM. Journal of Biological Chemistry, 2008, 283, 22628-22636.	1.6	57
123	Enhancing the Latent Nucleotide Triphosphate Flexibility of the Glucose-1-phosphate Thymidylyltransferase RmlA. Journal of Biological Chemistry, 2007, 282, 16942-16947.	1.6	41
124	Model for Antibiotic Optimization via Neoglycosylation:Â Synthesis of Liponeoglycopeptides Active against VRE. Journal of the American Chemical Society, 2007, 129, 8150-8155.	6.6	59
125	The In Vitro Characterization of the Erythronolide Mycarosyltransferase EryBV and Its Utility in Macrolide Diversification. ChemBioChem, 2007, 8, 385-390.	1.3	43
126	Selective Detection of Sugar Phosphates by Capillary Electrophoresis/Mass Spectrometry and Its Application to an EngineeredE. coli Host. ChemBioChem, 2007, 8, 1180-1188.	1.3	20

#	Article	IF	Citations
127	Expanding the promiscuity of a natural-product glycosyltransferase by directed evolution. Nature Chemical Biology, 2007, 3, 657-662.	3.9	249
128	Colchicine Glycorandomization Influences Cytotoxicity and Mechanism of Action. Journal of the American Chemical Society, 2006, 128, 14224-14225.	6.6	87
129	Structural Insight into the Self-Sacrifice Mechanism of Enediyne Resistance. ACS Chemical Biology, 2006, 1, 451-460.	1.6	34
130	Exploiting the Reversibility of Natural Product Glycosyltransferase-Catalyzed Reactions. Science, 2006, 313, 1291-1294.	6.0	263
131	Natural Product Diversification Using a Non-natural Cofactor Analogue of S-Adenosyl-l-methionine. Journal of the American Chemical Society, 2006, 128, 2760-2761.	6.6	72
132	The in Vitro Characterization of the Iterative Avermectin Glycosyltransferase AveBI Reveals Reaction Reversibility and Sugar Nucleotide Flexibility. Journal of the American Chemical Society, 2006, 128, 16420-16421.	6.6	76
133	A sweet success for substrate engineering. , 2006, 2, 659-660.		4
134	Enzymatic tools for engineering natural product glycosylation. Current Opinion in Chemical Biology, 2006, 10, 263-271.	2.8	150
135	Deciphering Indolocarbazole and Enediyne Aminodideoxypentose Biosynthesis through Comparative Genomics: Insights from the AT2433 Biosynthetic Locus. Chemistry and Biology, 2006, 13, 733-743.	6.2	63
136	RebG- and RebM-Catalyzed Indolocarbazole Diversification. ChemBioChem, 2006, 7, 795-804.	1.3	67
137	Substrate Specificity of the Macrolide-Glycosylating Enzyme Pair DesVII/DesVIII: Opportunities, Limitations, and Mechanistic Hypotheses. Angewandte Chemie - International Edition, 2006, 45, 2748-2753.	7.2	71
138	A Continuous Assay for DNA Cleavage Using Molecular Break Lights. , 2006, 335, 83-92.		4
139	Structure-Based Engineering of E. coli Galactokinase as a First Step toward In Vivo Glycorandomization. Chemistry and Biology, 2005, 12, 657-664.	6.2	66
140	Antitumor Antibiotics: Bleomycin, Enediynes, and Mitomycin. ChemInform, 2005, 36, no.	0.1	2
141	â€˜Sweeteningâ€™ natural products via glycorandomization. Current Opinion in Biotechnology, 2005, 16, 622-630.	3.3	153
142	Enhancing the anticancer properties of cardiac glycosides by neoglycorandomization. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12305-12310.	3.3	215
143	Neoglycorandomization and Chemoenzymatic Glycorandomization:â€‰ Two Complementary Tools for Natural Product Diversification. Journal of Natural Products, 2005, 68, 1696-1711.	1.5	145
144	Diversifying Vancomycin via Chemoenzymatic Strategies. Organic Letters, 2005, 7, 1513-1515.	2.4	101

#	Article	IF	Citations
145	Structure, activity, synthesis and biosynthesis of aryl-C-glycosides. Natural Product Reports, 2005, 22, 742.	5.2	254
146	Antitumor Antibiotics:â€‰ Bleomycin, Enediynes, and Mitomycin. Chemical Reviews, 2005, 105, 739-758.	23.0	502
147	Recent Carbohydrate-Based Chemoselective Ligation Applications. Current Organic Synthesis, 2005, 2, 59-81.	0.7	72
148	The Glycosyltransferase UrdGT2 Catalyzes Both C- and O-Glycosidic Sugar Transfers. Angewandte Chemie - International Edition, 2004, 43, 2962-2965.	7.2	109
149	Structure-Based Enzyme Engineering and Its Impact on In Vitro Glycorandomization. ChemBioChem, 2004, 5, 16-25.	1.3	70
150	Mechanistic Implications of Escherichia coli Galactokinase Structure-Based Engineering. ChemBioChem, 2004, 5, 989-992.	1.3	24
151	Structure-Based Enhancement of the First Anomeric Glucokinase. ChemBioChem, 2004, 5, 992-996.	1.3	41
152	Structure-Based Enzyme Engineering and Its Impact on in vitro Glycorandomization. ChemInform, 2004, 35, no.	0.1	0
153	Natural Product Glycorandomization. ChemInform, 2004, 35, no.	0.1	0
154	Natural product glycorandomization. Bioorganic and Medicinal Chemistry, 2004, 12, 1577-1584.	1.4	97
155	The Hedamycin Locus Implicates a Novel Aromatic PKS Priming Mechanism. Chemistry and Biology, 2004, 11, 959-969.	6.2	83
156	Application of the Nucleotidylyltransferase Ep toward the Chemoenzymatic Synthesis of dTDP-Desosamine Analogues. ChemBioChem, 2003, 4, 443-446.	1.3	28
157	The Biosynthesis of Indolocarbazoles in a Heterologous E. coli Host. ChemBioChem, 2003, 4, 114-117.	1.3	56
158	A genomics-guided approach for discovering and expressing cryptic metabolic pathways. Nature Biotechnology, 2003, 21, 187-190.	9.4	292
159	Antibiotic optimization via in vitro glycorandomization. Nature Biotechnology, 2003, 21, 1467-1469.	9.4	214
160	Substrate Specificity of NovM:â€‰ Implications for Novobiocin Biosynthesis and Glycorandomization. Organic Letters, 2003, 5, 933-936.	2.4	78
161	Studies on the Substrate Specificity ofEscherichia coliGalactokinase. Organic Letters, 2003, 5, 2223-2226.	2.4	90
162	Resistance to Enediyne Antitumor Antibiotics by CalC Self-Sacrifice. Science, 2003, 301, 1537-1541.	6.0	82

#	Article	IF	Citations
163	Rapid PCR amplification of minimal enediyne polyketide synthase cassettes leads to a predictive familial classification model. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11959-11963.	3.3	88
164	Creation of the first anomeric D/L-sugar kinase by means of directed evolution. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13184-13189.	3.3	42
165	Expanding pyrimidine diphosphosugar libraries via structure-based nucleotidylyltransferase engineering. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13397-13402.	3.3	89
166	The Calicheamicin Gene Cluster and Its Iterative Type I Enediyne PKS. Science, 2002, 297, 1173-1176.	6.0	280
167	On the Origin of Deoxypentoses: Evidence to Support a Glucose Progenitor in the Biosynthesis of Calicheamicin. ChemBioChem, 2002, 3, 1143-1146.	1.3	17
168	Incorporation of Glucose Analogs by GtfE and GtfD from the Vancomycin Biosynthetic Pathway to Generate Variant Glycopeptides. Chemistry and Biology, 2002, 9, 1305-1314.	6.2	140
169	Expanding the Pyrimidine Diphosphosugar Repertoire: The Chemoenzymatic Synthesis of Amino- and Acetamidoglucopyranosyl Derivatives. Angewandte Chemie - International Edition, 2001, 40, 1502-1505.	7.2	59
170	Structure, mechanism and engineering of a nucleotidylyltransferase as a first step toward glycorandomization. Nature Structural Biology, 2001, 8, 545-551.	9.7	119
171	Natures Carbohydrate Chemists The Enzymatic Glycosylation of Bioactive Bacterial Metabolites. Current Organic Chemistry, 2001, 5, 139-167.	0.9	166
172	Expanding the Pyrimidine Diphosphosugar Repertoire: The Chemoenzymatic Synthesis of Amino- and Acetamidoglucopyranosyl Derivatives This contribution was supported by the National Institutes of Health (GM58196 and CA84374), a Cancer Center Support Grant (CA-08748), and a grant from the Special Projects Committee of the Society of Memorial Sloan-Kettering Cancer Center. J.S.T. is an Alfred P. Sloan Research Fellow and a Rita Allen Foundation Scholar.. Angewandte Chemie - International Edition, 2001, 40, 1502-1505.	7.2	3
173	A continuous assay for DNA cleavage: The application of "break lights" to enediynes, iron-dependent agents, and nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13537-13542.	3.3	107
174	A General Enzymatic Method for the Synthesis of Natural and â€œUnnaturalâ€• UDP- and TDP-Nucleotide Sugars. Journal of the American Chemical Society, 2000, 122, 6803-6804.	6.6	88
175	Understanding and Exploiting Natures Chemical Arsenal: The Past,Present and Future of Calicheamicin Research. Current Pharmaceutical Design, 2000, 6, 1841-1879.	0.9	155
176	The GenecalC Encodes for a Non-Heme Iron Metalloprotein Responsible for Calicheamicin Self-Resistance inMicromonospora. Journal of the American Chemical Society, 2000, 122, 1556-1557.	6.6	31
177	Chemoenzymatic synthesis of the Salmonella group E1 core trisaccharide using a recombinant Î²-(1â†'4)-mannosyltransferase. Carbohydrate Research, 1999, 319, 184-191.	1.1	21
178	Enediyne Biosynthesis and Self-Resistance: A Progress Report. Bioorganic Chemistry, 1999, 27, 172-188.	2.0	43
179	Engineering a Methymycin/Pikromycinâ˘'Calicheamicin Hybrid:â€‰ Construction of Two New Macrolides Carrying a Designed Sugar Moiety. Journal of the American Chemical Society, 1999, 121, 9881-9882.	6.6	80
180	A Methodological Comparison:Â The Advantage of Phosphorimidates in Expanding the Sugar Nucleotide Repertoire. Journal of Organic Chemistry, 1998, 63, 7568-7572.	1.7	34

#	Article	IF	Citations
181	Acceptor Specificity ofSalmonellaGDP-Man:Î±lRha1â†’3Î±dGal-PP-Und Î²1â†’4-Mannosyltransferase:Â A Simplified Assay Based on Unnatural Acceptors. Journal of the American Chemical Society, 1998, 120, 12986-12987.	6.6	8
182	Analysis of the Role of the Active Site Tyrosine in Human Glutathione Transferase A1-1 by Unnatural Amino Acid Mutagenesis. Journal of the American Chemical Society, 1998, 120, 451-452.	6.6	30
183	A Biosynthetic Approach for the Incorporation of Unnatural Amino Acids into Proteins. , 1998, 77, 43-74.		19
184	Mutational Analysis of Backbone Hydrogen Bonds in Staphylococcal Nuclease. Journal of the American Chemical Society, 1997, 119, 7151-7152.	6.6	70
185	Probing the Coenzyme and Substrate Binding Events of CDP-d-glucose 4,6-Dehydratase:Â Mechanistic Implicationsâ€. Biochemistry, 1996, 35, 4721-4731.	1.2	41
186	Mechanistic Studies of the Biosynthesis of 3,6â€Ðideoxysugars in Bacteria: Exploration of a Novel Câ€O Bond Cleavage Event. Journal of the Chinese Chemical Society, 1995, 42, 627-636.	0.8	3
187	Analysis of Hydrogen Bonding Strengths in Proteins Using Unnatural Amino Acids. Journal of the American Chemical Society, 1995, 117, 9361-9362.	6.6	62
188	Linear Free Energy Analysis of Hydrogen Bonding in Proteins. Journal of the American Chemical Society, 1995, 117, 1157-1158.	6.6	55
189	Nicotinic receptor binding site probed with unnatural amino acid incorporation in intact cells. Science, 1995, 268, 439-442.	6.0	231
190	Cloning, sequencing, and overexpression in Escherichia coli of the alpha-D-glucose-1-phosphate cytidylyltransferase gene isolated from Yersinia pseudotuberculosis. Journal of Bacteriology, 1994, 176, 1840-1849.	1.0	50
191	CDP-6-deoxy-delta 3,4-glucoseen reductase from Yersinia pseudotuberculosis: enzyme purification and characterization of the cloned gene. Journal of Bacteriology, 1994, 176, 460-468.	1.0	40
192	Biosynthesis of 3,6-dideoxyhexoses: new mechanistic reflections upon 2,6-dideoxy, 4,6-dideoxy, and amino sugar construction. Journal of the American Chemical Society, 1993, 115, 6993-6994.	6.6	82
193	Coenzyme B6 as a redox cofactor: a new role for an old coenzyme?. Journal of the American Chemical Society, 1993, 115, 12177-12178.	6.6	32
194	Characterization of the first PMP-dependent iron-sulfur-containing enzyme which is essential for the biosynthesis of 3,6-dideoxyhexoses. Journal of the American Chemical Society, 1993, 115, 7539-7540.	6.6	49
195	Molecular basis of 3,6-dideoxyhexose biosynthesis: elucidation of CDP-ascarylose biosynthetic genes and their relationship to other 3,6-dideoxyhexose pathways. Journal of the American Chemical Society, 1993, 115, 5827-5828.	6.6	43
196	Cofactor characterization and mechanistic studies of CDP-6-deoxy-.DELTA.3,4-glucoseen reductase: Exploration into a novel enzymic carbon-oxygen bond cleavage event. Biochemistry, 1993, 32, 11934-11942.	1.2	50
197	Studies of complex enzymic pyridine nucleotide-dependent transformations: structure and cofactor binding correlation in CDP-D-glucose oxidoreductase. Journal of the American Chemical Society, 1992, 114, 6941-6942.	6.6	10
198	Soils and spoils: mineralogy and geochemistry of mining and processing wastes from lead and zinc mining at the Gratz Mine, Owen County, Kentucky. Journal of Soils and Sediments, 0, , 1.	1.5	2