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	Antitumor Antibiotics:â€‰ Bleomycin, Enediynes, and Mitomycin. Chemical Reviews, 2005, 105, 739-758.	23.0	502
2	A comprehensive review of glycosylated bacterial natural products. Chemical Society Reviews, 2015, 44, 7591-7697.	18.7	347
3	A genomics-guided approach for discovering and expressing cryptic metabolic pathways. Nature Biotechnology, 2003, 21, 187-190.	9.4	292
4	The Calicheamicin Gene Cluster and Its Iterative Type I Enediyne PKS. Science, 2002, 297, 1173-1176.	6.0	280
5	Exploiting the Reversibility of Natural Product Glycosyltransferase-Catalyzed Reactions. Science, 2006, 313, 1291-1294.	6.0	263
6	Structure, activity, synthesis and biosynthesis of aryl-C-glycosides. Natural Product Reports, 2005, 22, 742.	5.2	254
7	Expanding the promiscuity of a natural-product glycosyltransferase by directed evolution. Nature Chemical Biology, 2007, 3, 657-662.	3.9	249
8	Nicotinic receptor binding site probed with unnatural amino acid incorporation in intact cells. Science, 1995, 268, 439-442.	6.0	231
9	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
10	Antibiotic optimization via in vitro glycorandomization. Nature Biotechnology, 2003, 21, 1467-1469.	9.4	214
11	Enzymatic methods for glyco(diversification/randomization) of drugs and small molecules. Natural Product Reports, 2011, 28, 1811.	5.2	214
12	Natures Carbohydrate Chemists The Enzymatic Glycosylation of Bioactive Bacterial Metabolites. Current Organic Chemistry, 2001, 5, 139-167.	0.9	166
13	Understanding and Exploiting Natures Chemical Arsenal: The Past,Present and Future of Calicheamicin Research. Current Pharmaceutical Design, 2000, 6, 1841-1879.	0.9	155
14	â€˜Sweeteningâ€™ natural products via glycorandomization. Current Opinion in Biotechnology, 2005, 16, 622-630.	3.3	153
15	Enzymatic tools for engineering natural product glycosylation. Current Opinion in Chemical Biology, 2006, 10, 263-271.	2.8	150
16	Neoglycorandomization and Chemoenzymatic Glycorandomization:â€‰ Two Complementary Tools for Natural Product Diversification. Journal of Natural Products, 2005, 68, 1696-1711.	1.5	145
17	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
18	Glycosyltransferase structural biology and its role in the design of catalysts for glycosylation. Current Opinion in Biotechnology, 2011, 22, 800-808.	3.3	136

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19	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
20	Structure, mechanism and engineering of a nucleotidylyltransferase as a first step toward glycorandomization. Nature Structural Biology, 2001, 8, 545-551.	9.7	119
21	Probing the Aglycon Promiscuity of an Engineered Glycosyltransferase. Angewandte Chemie - International Edition, 2008, 47, 8889-8892.	7.2	118
22	Using simple donors to drive the equilibria of glycosyltransferase-catalyzed reactions. Nature Chemical Biology, 2011, 7, 685-691.	3.9	113
23	The Glycosyltransferase UrdGT2 Catalyzes Both C- and O-Glycosidic Sugar Transfers. Angewandte Chemie - International Edition, 2004, 43, 2962-2965.	7.2	109
24	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
25	Diversifying Vancomycin via Chemoenzymatic Strategies. Organic Letters, 2005, 7, 1513-1515.	2.4	101
26	The structural biology of enzymes involved in natural product glycosylation. Natural Product Reports, 2012, 29, 1201.	5.2	99
27	Natural product glycorandomization. Bioorganic and Medicinal Chemistry, 2004, 12, 1577-1584.	1.4	97
28	The impact of enzyme engineering upon natural product glycodiversification. Current Opinion in Chemical Biology, 2008, 12, 556-564.	2.8	91
29	Studies on the Substrate Specificity ofEscherichia coliGalactokinase. Organic Letters, 2003, 5, 2223-2226.	2.4	90
30	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
31	The structure of flavinâ€dependent tryptophan 7â€halogenase RebH. Proteins: Structure, Function and Bioinformatics, 2008, 70, 289-293.	1.5	89
32	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
33	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
34	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
35	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
36	Colchicine Glycorandomization Influences Cytotoxicity and Mechanism of Action. Journal of the American Chemical Society, 2006, 128, 14224-14225.	6.6	87

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37	The Hedamycin Locus Implicates a Novel Aromatic PKS Priming Mechanism. Chemistry and Biology, 2004, 11, 959-969.	6.2	83
38	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
39	Resistance to Enediyne Antitumor Antibiotics by CalC Self-Sacrifice. Science, 2003, 301, 1537-1541.	6.0	82
40	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
41	Substrate Specificity of NovM:â€‰ Implications for Novobiocin Biosynthesis and Glycorandomization. Organic Letters, 2003, 5, 933-936.	2.4	78
42	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
43	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
44	Recent Carbohydrate-Based Chemoselective Ligation Applications. Current Organic Synthesis, 2005, 2, 59-81.	0.7	72
45	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
46	Mutational Analysis of Backbone Hydrogen Bonds in Staphylococcal Nuclease. Journal of the American Chemical Society, 1997, 119, 7151-7152.	6.6	70
47	Structure-Based Enzyme Engineering and Its Impact on In Vitro Glycorandomization. ChemBioChem, 2004, 5, 16-25.	1.3	70
48	The biosynthetic genes encoding for the production of the dynemicin enediyne core inMicromonospora chersinaATCC53710. FEMS Microbiology Letters, 2008, 282, 105-114.	0.7	68
49	RebG- and RebM-Catalyzed Indolocarbazole Diversification. ChemBioChem, 2006, 7, 795-804.	1.3	67
50	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
51	AdoMet analog synthesis and utilization: current state of the art. Current Opinion in Biotechnology, 2016, 42, 189-197.	3.3	66
52	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
53	Analysis of Hydrogen Bonding Strengths in Proteins Using Unnatural Amino Acids. Journal of the American Chemical Society, 1995, 117, 9361-9362.	6.6	62
54	Frenolicins Câ€"G, Pyranonaphthoquinones from <i>Streptomyces</i> sp. RM-4-15. Journal of Natural Products, 2013, 76, 1441-1447.	1.5	62

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55	A comparison of sugar indicators enables a universal high-throughput sugar-1-phosphate nucleotidyltransferase assay. Analytical Biochemistry, 2008, 377, 251-258.	1.1	60
56	Antibacterial Activity of Endophytic Actinomycetes Isolated from the Medicinal Plant Vochysia divergens (Pantanal, Brazil). Frontiers in Microbiology, 2017, 8, 1642.	1.5	60
57	Expanding the Pyrimidine Diphosphosugar Repertoire: The Chemoenzymatic Synthesis of Amino- and Acetamidoglucopyranosyl Derivatives. Angewandte Chemie - International Edition, 2001, 40, 1502-1505.	7.2	59
58	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
59	Recombinant <i>E. coli</i> Prototype Strains for <i>in Vivo</i> Glycorandomization. ACS Chemical Biology, 2011, 6, 95-100.	1.6	59
60	Structure and Mechanism of the Rebeccamycin Sugar 4â€²-O-Methyltransferase RebM. Journal of Biological Chemistry, 2008, 283, 22628-22636.	1.6	57
61	The Biosynthesis of Indolocarbazoles in a Heterologous E. coli Host. ChemBioChem, 2003, 4, 114-117.	1.3	56
62	Linear Free Energy Analysis of Hydrogen Bonding in Proteins. Journal of the American Chemical Society, 1995, 117, 1157-1158.	6.6	55
63	Assessing the Regioselectivity of OleD-Catalyzed Glycosylation with a Diverse Set of Acceptors. Journal of Natural Products, 2013, 76, 279-286.	1.5	54
64	Biochemical and Structural Insights of the Early Glycosylation Steps in Calicheamicin Biosynthesis. Chemistry and Biology, 2008, 15, 842-853.	6.2	51
65	A high-throughput fluorescence-based glycosyltransferase screen and its application in directed evolution. Nature Protocols, 2008, 3, 357-362.	5.5	51
66	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
67	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
68	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
69	Assessment of Chemoselective Neoglycosylation Methods Using Chlorambucil as a Model. Journal of Medicinal Chemistry, 2010, 53, 8129-8139.	2.9	50
70	Structure and specificity of a permissive bacterial C-prenyltransferase. Nature Chemical Biology, 2017, 13, 366-368.	3.9	50
71	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
72	Targeted Chemical Wedges Reveal the Role of Allosteric DNA Modulation in Proteinâ˘'DNA Assembly. ACS Chemical Biology, 2008, 3, 220-229.	1.6	47

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73	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
74	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
75	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
76	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
77	Enediyne Biosynthesis and Self-Resistance: A Progress Report. Bioorganic Chemistry, 1999, 27, 172-188.	2.0	43
78	The In Vitro Characterization of the Erythronolide Mycarosyltransferase EryBV and Its Utility in Macrolide Diversification. ChemBioChem, 2007, 8, 385-390.	1.3	43
79	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
80	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
81	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
82	Structure-Based Enhancement of the First Anomeric Glucokinase. ChemBioChem, 2004, 5, 992-996.	1.3	41
83	Enhancing the Latent Nucleotide Triphosphate Flexibility of the Glucose-1-phosphate Thymidylyltransferase RmlA. Journal of Biological Chemistry, 2007, 282, 16942-16947.	1.6	41
84	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
85	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
86	Microbispora sp. LGMB259 Endophytic Actinomycete Isolated from Vochysia divergens (Pantanal,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 345-354.	1.0	40
87	Enhancing the Divergent Activities of Betulinic Acid via Neoglycosylation. Organic Letters, 2009, 11, 461-464.	2.4	39
88	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
89	Natural Product Glycosyltransferases: Properties and Applications. Advances in Enzymology and Related Areas of Molecular Biology, 2009, 76, 55-119.	1.3	38
90	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

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91	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
92	Cytotoxic Indolocarbazoles from <i>Actinomadura melliaura</i> ATCC 39691. Journal of Natural Products, 2015, 78, 1723-1729.	1.5	37
93	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
94	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
95	Functional AdoMet Isosteres Resistant to Classical AdoMet Degradation Pathways. ACS Chemical Biology, 2016, 11, 2484-2491.	1.6	36
96	Probing the Regiospecificity of Enzyme-Catalyzed Steroid Glycosylation. Organic Letters, 2012, 14, 5424-5427.	2.4	35
97	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
98	Structural Insight into the Self-Sacrifice Mechanism of Enediyne Resistance. ACS Chemical Biology, 2006, 1, 451-460.	1.6	34
99	Natural Product Disaccharide Engineering through Tandem Glycosyltransferase Catalysis Reversibility and Neoglycosylation. Organic Letters, 2012, 14, 5086-5089.	2.4	34
100	Venturicidin C, a new 20-membered macrolide produced by Streptomyces sp. TS-2-2. Journal of Antibiotics, 2014, 67, 223-230.	1.0	33
101	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
102	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
103	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
104	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
105	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
106	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
107	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
108	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

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109	Application of the Nucleotidylyltransferase Ep toward the Chemoenzymatic Synthesis of dTDP-Desosamine Analogues. ChemBioChem, 2003, 4, 443-446.	1.3	28
110	Warfarin Glycosylation Invokes a Switch from Anticoagulant to Anticancer Activity. ChemMedChem, 2011, 6, 1347-1350.	1.6	28
111	The Biosynthesis of Capuramycin-type Antibiotics. Journal of Biological Chemistry, 2015, 290, 13710-13724.	1.6	28
112	Insights into the Target Interaction of Naturally Occurring Muraymycin Nucleoside Antibiotics. ChemMedChem, 2018, 13, 779-784.	1.6	28
113	Bioprospecting of Diaporthe terebinthifolii LGMF907 for antimicrobial compounds. Folia Microbiologica, 2018, 63, 499-505.	1.1	28
114	The in vitro Characterization of Polyene Glycosyltransferases AmphDI and NysDI. ChemBioChem, 2008, 9, 2506-2514.	1.3	27
115	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
116	Vochysiamides A and B: Two new bioactive carboxamides produced by the new species Diaporthe vochysiae. FÃ¬toterapÃ¬Ã¢, 2019, 138, 104273.	1.1	27
117	Asymmetric Enzymatic Glycosylation of Mitoxantrone. Organic Letters, 2011, 13, 2786-2788.	2.4	26
118	Structural characterization of the mitomycin 7â€<i>O</i>â€methyltransferase. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2181-2188.	1.5	26
119	Structural Characterization of Oâ€•and Câ€Glycosylating Variants of the Landomycin Glycosyltransferase LanGT2. Angewandte Chemie - International Edition, 2015, 54, 2811-2815.	7.2	26
120	Antibacterial Muraymycins from Mutant Strains of <i>Streptomyces</i> sp. NRRL 30471. Journal of Natural Products, 2018, 81, 942-948.	1.5	26
121	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
122	Mechanistic Implications of Escherichia coli Galactokinase Structure-Based Engineering. ChemBioChem, 2004, 5, 989-992.	1.3	24
123	Enhancement of Cyclopamine via Conjugation with Nonmetabolic Sugars. Organic Letters, 2012, 14, 2454-2457.	2.4	24
124	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
125	The Identification of Perillyl Alcohol Glycosides with Improved Antiproliferative Activity. Journal of Medicinal Chemistry, 2014, 57, 7478-7484.	2.9	24
126	Structure-Guided Functional Characterization of Enediyne Self-Sacrifice Resistance Proteins, CalU16 and CalU19. ACS Chemical Biology, 2014, 9, 2347-2358.	1.6	24

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127	Extracellular Antibody Drug Conjugates Exploiting the Proximity of Two Proteins. Molecular Therapy, 2016, 24, 1760-1770.	3.7	24
128	Pyridoxal-5â€²-phosphate-dependent alkyl transfer in nucleoside antibiotic biosynthesis. Nature Chemical Biology, 2020, 16, 904-911.	3.9	24
129	Development of a universal glycosyltransferase assay amenable to high-throughput formats. Analytical Biochemistry, 2011, 418, 85-88.	1.1	23
130	Ruthmycin, a New Tetracyclic Polyketide from Streptomyces sp. RM-4-15. Organic Letters, 2014, 16, 456-459.	2.4	23
131	Functionalized Anodic Aluminum Oxide Membraneâ€"Electrode System for Enzyme Immobilization. ACS Nano, 2014, 8, 8104-8112.	7.3	22
132	A Divergent Enantioselective Strategy for the Synthesis of Griseusins. Angewandte Chemie - International Edition, 2015, 54, 11219-11222.	7.2	22
133	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
134	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
135	Influence of Sugar Amine Regiochemistry on Digitoxigenin Neoglycoside Anticancer Activity. ACS Medicinal Chemistry Letters, 2015, 6, 1053-1058.	1.3	21
136	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
137	Methionine Adenosyltransferase Engineering to Enable Bioorthogonal Platforms for AdoMet-Utilizing Enzymes. ACS Chemical Biology, 2020, 15, 695-705.	1.6	20
138	A Biosynthetic Approach for the Incorporation of Unnatural Amino Acids into Proteins. , 1998, 77, 43-74.		19
139	A Simple Strategy for Glycosyltransferaseâ€Catalyzed Aminosugar Nucleotide Synthesis. ChemBioChem, 2014, 15, 647-651.	1.3	18
140	Spore forming Actinobacterial diversity of Cholistan Desert Pakistan: Polyphasic taxonomy, antimicrobial potential and chemical profiling. BMC Microbiology, 2019, 19, 49.	1.3	18
141	On the Origin of Deoxypentoses: Evidence to Support a Glucose Progenitor in the Biosynthesis of Calicheamicin. ChemBioChem, 2002, 3, 1143-1146.	1.3	17
142	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
143	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
144	HDAC Regulates Transcription at the Outset of Axolotl Tail Regeneration. Scientific Reports, 2019, 9, 6751.	1.6	17

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145	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
146	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
147	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
148	Secondary metabolites produced by Microbacterium sp. LGMB471 with antifungal activity against the phytopathogen Phyllosticta citricarpa. Folia Microbiologica, 2019, 64, 453-460.	1.1	16
149	Synthesis and Antibacterial Activity of Doxycycline Neoglycosides. Journal of Natural Products, 2013, 76, 1627-1636.	1.5	14
150	Total synthesis of griseusins and elucidation of the griseusin mechanism of action. Chemical Science, 2019, 10, 7641-7648.	3.7	13
151	Endophytes of Brazilian Medicinal Plants With Activity Against Phytopathogens. Frontiers in Microbiology, 2021, 12, 714750.	1.5	13
152	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
153	Structural Basis for the Stereochemical Control of Amine Installation in Nucleotide Sugar Aminotransferases. ACS Chemical Biology, 2015, 10, 2048-2056.	1.6	12
154	Biosynthetic and Synthetic Strategies for Assembling Capuramycin-Type Antituberculosis Antibiotics. Molecules, 2019, 24, 433.	1.7	12
155	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
156	Glycosyloxyamine Neoglycosylation: A Model Study Using Calicheamicin. ChemMedChem, 2011, 6, 774-776.	1.6	11
157	Enzymatic Synthesis of the Ribosylated Glycyl-Uridine Disaccharide Core of Peptidyl Nucleoside Antibiotics. Journal of Organic Chemistry, 2018, 83, 7239-7249.	1.7	11
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