Hung-wen Liu

List of Publications by Year
in descending order

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132 papers	6,363 citations	66234 42 h-index	74018 75 g-index
138 all docs	138 docs citations	138 times ranked	5226 citing authors

#	Article	IF	Citations
1	Byproduct formation during the biosynthesis of spinosyn A and evidence for an enzymatic interplay to prevent its formation. Tetrahedron, 2022, 103, 132569.	1.0	2
2	Deciphering the Reaction Pathway of Mononuclear Iron Enzyme-Catalyzed Nâ‰¡C Triple Bond Formation in Isocyanide Lipopeptide and Polyketide Biosynthesis. ACS Catalysis, 2022, 12, 2270-2279.	5.5	13
3	Studies of GenK and OxsB, two B12-dependent radical SAM enzymes involved in natural product biosynthesis. Methods in Enzymology, 2022, , .	0.4	0
4	Radical S-Adenosyl Methionine Enzyme BlsE Catalyzes a Radical-Mediated 1,2-Diol Dehydration during the Biosynthesis of Blasticidin S. Journal of the American Chemical Society, 2022, 144, 4478-4486.	6.6	6
5	Structural Investigation of AlsA, a Radical Sâ€ adenosylmethionine Enzyme Involved in the Biosynthesis of the Oxetaneâ€containing Herbicide Albucidin. FASEB Journal, 2022, 36, .	0.2	0
6	Characterization of the Oxazinomycin Biosynthetic Pathway Revealing the Key Role of a Nonheme Iron-Dependent Mono-oxygenase. Journal of the American Chemical Society, 2022, 144, 10968-10977.	6.6	6
7	Biosynthesis of Oxetanocin-A Includes a B₁₂-Dependent Radical SAM Enzyme That Can Catalyze both Oxidative Ring Contraction and the Demethylation of SAM. Biochemistry, 2021, 60, 537-546.	1.2	13
8	Mechanistic Investigation of 1,2-Diol Dehydration of Paromamine Catalyzed by the Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme AprD4. Journal of the American Chemical Society, 2021, 143, 5038-5043.	6.6	10
9	Distinguishing Concerted versus Stepwise Mechanisms Using Isotope Effects on Isotope Effects. Biochemistry, 2021, 60, 3416-3418.	1.2	1
10	Identification of a Pyrrole Intermediate Which Undergoes Câ€Glycosidation and Autoxidation to Yield the Final Product in Showdomycin Biosynthesis. Angewandte Chemie - International Edition, 2021, 60, 17148-17154.	7.2	8
11	Identification of a Pyrrole Intermediate Which Undergoes Câ€Glycosidation and Autoxidation to Yield the Final Product in Showdomycin Biosynthesis. Angewandte Chemie, 2021, 133, 17285-17291.	1.6	3
12	HygY Is a Twitch Radical SAM Epimerase with Latent Dehydrogenase Activity Revealed upon Mutation of a Single Cysteine Residue. Journal of the American Chemical Society, 2021, 143, 15152-15158.	6.6	10
13	Evidence for an Enzyme-Catalyzed Rauhutâ€“Currier Reaction during the Biosynthesis of Spinosyn A. Journal of the American Chemical Society, 2021, 143, 20291-20295.	6.6	8
14	Recent Progress in Unusual Carbohydrate-Containing Natural Products Biosynthesis. , 2020, , 336-392.		3
15	Identification of the Enzymes Mediating the Maturation of the Serylâ€tRNA Synthetase Inhibitor SBâ€217452 during the Biosynthesis of Albomycins. Angewandte Chemie, 2020, 132, 3586-3590.	1.6	5
16	Identification of the Enzymes Mediating the Maturation of the Serylâ€tRNA Synthetase Inhibitor SBâ€217452 during the Biosynthesis of Albomycins. Angewandte Chemie - International Edition, 2020, 59, 3558-3562.	7.2	12
17	Studies of lincosamide formation complete the biosynthetic pathway for lincomycin A. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24794-24801.	3.3	11
18	Characterization of the coformycin biosynthetic gene cluster inStreptomyces kaniharaensis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10265-10270.	3.3	8

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19	Identification of the Câ€Glycoside Synthases during Biosynthesis of the Pyrazoleâ€Câ€Nucleosides Formycin and Pyrazofurin. Angewandte Chemie - International Edition, 2019, 58, 16512-16516.	7.2	25
20	Identification of the Câ€Glycoside Synthases during Biosynthesis of the Pyrazoleâ€Câ€Nucleosides Formycin and Pyrazofurin. Angewandte Chemie, 2019, 131, 16664-16668.	1.6	6
21	Biosynthetic Origin of the Atypical Stereochemistry in the Thioheptose Core of Albomycin Nucleoside Antibiotics. Journal of the American Chemical Society, 2019, 141, 2211-2214.	6.6	28
22	The Amipurimycin and Miharamycin Biosynthetic Gene Clusters: Unraveling the Origins of 2-Aminopurinyl Peptidyl Nucleoside Antibiotics. Journal of the American Chemical Society, 2019, 141, 14152-14159.	6.6	25
23	Identification of the Formycin A Biosynthetic Gene Cluster from Streptomyces kaniharaensis Illustrates the Interplay between Biological Pyrazolopyrimidine Formation and de Novo Purine Biosynthesis. Journal of the American Chemical Society, 2019, 141, 6127-6131.	6.6	38
24	Elucidation of the Herbicidin Tailoring Pathway Offers Insights into Its Structural Diversity. Organic Letters, 2019, 21, 1374-1378.	2.4	14
25	Measurement of Net Rate Constants from Enzyme Progress Curves without Curve Fitting. Biochemistry, 2019, 58, 4950-4956.	1.2	1
26	Complete reconstitution of the diverse pathways of gentamicin B biosynthesis. Nature Chemical Biology, 2019, 15, 295-303.	3.9	22
27	Changes in Regioselectivity of H Atom Abstraction during the Hydroxylation and Cyclization Reactions Catalyzed by Hyoscyamine 6Î²-Hydroxylase. Journal of the American Chemical Society, 2019, 141, 1062-1066.	6.6	18
28	Mechanistic Implications of the Deamination of TDP-4-amino-4-deoxy-<scp>d</scp>-fucose Catalyzed by the Radical SAM Enzyme DesII. Biochemistry, 2018, 57, 3130-3133.	1.2	2
29	Following the electrons: peculiarities in the catalytic cycles of radical SAM enzymes. Natural Product Reports, 2018, 35, 615-621.	5.2	34
30	PARP-1â€“dependent recruitment of cold-inducible RNA-binding protein promotes double-strand break repair and genome stability. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1759-E1768.	3.3	35
31	Influence of water and enzyme SpnF on the dynamics and energetics of the ambimodal [6+4]/[4+2] cycloaddition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E848-E855.	3.3	57
32	Biochemical Basis of Vosevi, a New Treatment for Hepatitis C. Biochemistry, 2018, 57, 479-480.	1.2	7
33	Substrate Conformation Correlates with the Outcome of Hyoscyamine 6Î²-Hydroxylase Catalyzed Oxidation Reactions. Journal of the American Chemical Society, 2018, 140, 7433-7436.	6.6	24
34	Molecular basis of dimer formation during the biosynthesis of benzofluorene-containing atypical angucyclines. Nature Communications, 2018, 9, 2088.	5.8	53
35	Biosynthesis of oxetanocin: are two cofactors better than one?. FASEB Journal, 2018, 32, 796.25.	0.2	0
36	Identification and Characterization of Enzymes Catalyzing Pyrazolopyrimidine Formation in the Biosynthesis of Formycin A. Organic Letters, 2017, 19, 1426-1429.	2.4	20

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37	Characterization of the flavoenzyme XiaK as an N-hydroxylase and implications in indolosesquiterpene diversification. Chemical Science, 2017, 8, 5067-5077.	3.7	35
38	Natural [4 + 2]-Cyclases. Chemical Reviews, 2017, 117, 5367-5388.	23.0	125
39	A B12-dependent radical SAM enzyme involved in oxetanocin A biosynthesis. Nature, 2017, 544, 322-326.	13.7	91
40	Reaction Catalyzed by GenK, a Cobalamin-Dependent Radical S-Adenosyl-<scp>l</scp>-methionine Methyltransferase in the Biosynthetic Pathway of Gentamicin, Proceeds with Retention of Configuration. Journal of the American Chemical Society, 2017, 139, 16084-16087.	6.6	54
41	The surprising history of an antioxidant. Nature, 2017, 551, 37-38.	13.7	17
42	Investigation of the mechanism of the SpnF-catalyzed [4+2]-cycloaddition reaction in the biosynthesis of spinosyn A. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10408-10413.	3.3	38
43	Identification and Interrogation of the Herbicidin Biosynthetic Gene Cluster: First Insight into the Biosynthesis of a Rare Undecose Nucleoside Antibiotic. Journal of the American Chemical Society, 2017, 139, 16450-16453.	6.6	12
44	The Enzymology of Organic Transformations: A Survey of Name Reactions in Biological Systems. Angewandte Chemie - International Edition, 2017, 56, 3446-3489.	7.2	61
45	Die Enzymologie organischer Umwandlungen: Namensreaktionen in biologischen Systemen. Angewandte Chemie, 2017, 129, 3498-3542.	1.6	15
46	The type II isopentenyl Diphosphate:Dimethylallyl diphosphate isomerase (IDI-2): A model for acid/base chemistry in flavoenzyme catalysis. Archives of Biochemistry and Biophysics, 2017, 632, 47-58.	1.4	13
47	Theory and Application of the Relationship Between Steady-State Isotope Effects on Enzyme Intermediate Concentrations and Net Rate Constants. Methods in Enzymology, 2017, 596, 459-499.	0.4	3
48	C3â€²â€Deoxygenation of Paromamine Catalyzed by a Radical Sâ€Adenosylmethionine Enzyme: Characterization of the Enzyme AprD4 and Its Reductase Partner AprD3. Angewandte Chemie, 2016, 128, 3788-3792.	1.6	6
49	Study of Uridine 5â€²-Diphosphate (UDP)-Galactopyranose Mutase Using UDP-5-Fluorogalactopyranose as a Probe: Incubation Results and Mechanistic Implications. Organic Letters, 2016, 18, 3438-3441.	2.4	6
50	Fungal biotransformation of tanshinone results in [4+2] cycloaddition with sorbicillinol: evidence for enzyme catalysis and increased antibacterial activity. Applied Microbiology and Biotechnology, 2016, 100, 8349-8357.	1.7	16
51	Characterization of Enzymes Catalyzing Transformations of Cysteine Sâ€Conjugated Intermediates in the Lincosamide Biosynthetic Pathway. ChemBioChem, 2016, 17, 1606-1611.	1.3	12
52	An HD domain phosphohydrolase active site tailored for oxetanocin-A biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13750-13755.	3.3	27
53	C3â€²â€Deoxygenation of Paromamine Catalyzed by a Radical Sâ€Adenosylmethionine Enzyme: Characterization of the Enzyme AprD4 and Its Reductase Partner AprD3. Angewandte Chemie - International Edition, 2016, 55, 3724-3728.	7.2	29
54	Insights into Complex Oxidation during BE-7585A Biosynthesis: Structural Determination and Analysis of the Polyketide Monooxygenase BexE. ACS Chemical Biology, 2016, 11, 1137-1147.	1.6	10

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55	Dynamically Complex [6+4] and [4+2] Cycloadditions in the Biosynthesis of Spinosyn A. Journal of the American Chemical Society, 2016, 138, 3631-3634.	6.6	116
56	Structural and functional analysis of two di-domain aromatase/cyclases from type II polyketide synthases. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6844-51.	3.3	30
57	Biosynthesis of Versipelostatin: Identification of an Enzyme-Catalyzed [4+2]-Cycloaddition Required for Macrocyclization of Spirotetronate-Containing Polyketides. Journal of the American Chemical Society, 2015, 137, 572-575.	6.6	89
58	The structure of SpnF, a standalone enzyme that catalyzes [4 + 2] cycloaddition. Nature Chemical Biology, 2015, 11, 256-258.	3.9	101
59	Mechanistic Enzymology of the Radical SAM Enzyme DesII. Israel Journal of Chemistry, 2015, 55, 315-324.	1.0	20
60	Studies of 1-Amino-2,2-difluorocyclopropane-1-carboxylic Acid: Mechanism of Decomposition and Inhibition of 1-Aminocyclopropane-1-carboxylic Acid Deaminase. Organic Letters, 2015, 17, 3342-3345.	2.4	7
61	Mechanistic Investigation of the Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme DesII Using Fluorinated Analogues. Journal of the American Chemical Society, 2015, 137, 4964-4967.	6.6	17
62	Mechanistic Studies of the Radical Sâ€Adenosylmethionine Enzyme DesII with TDPâ€<scp>D</scp>â€Fucose. Angewandte Chemie - International Edition, 2015, 54, 860-863.	7.2	24
63	Mechanistic Investigation of the Radical SAM Enzyme DesII Using Fluorinated Analogs. FASEB Journal, 2015, 29, 572.6.	0.2	0
64	In Vitro Characterization of LmbK and LmbO: Identification of GDP-<scp>d</scp>-erythro-Î±-<scp>d</scp>-gluco-octose as a Key Intermediate in Lincomycin A Biosynthesis. Journal of the American Chemical Society, 2014, 136, 906-909.	6.6	28
65	Chemoenzymatic Synthesis of Spinosynâ€...A. Angewandte Chemie - International Edition, 2014, 53, 13553-13557.	7.2	33
66	Co-opting sulphur-carrier proteins from primary metabolic pathways for 2-thiosugar biosynthesis. Nature, 2014, 510, 427-431.	13.7	59
67	Nitrososynthase-Triggered Oxidative Carbonâ€“Carbon Bond Cleavage in Baumycin Biosynthesis. Journal of the American Chemical Society, 2013, 135, 11457-11460.	6.6	13
68	Current development in isoprenoid precursor biosynthesis and regulation. Current Opinion in Chemical Biology, 2013, 17, 571-579.	2.8	109
69	The biosynthesis of nitrogen-, sulfur-, and high-carbon chain-containing sugars. Chemical Society Reviews, 2013, 42, 4377.	18.7	75
70	GenK-Catalyzed C-6â€² Methylation in the Biosynthesis of Gentamicin: Isolation and Characterization of a Cobalamin-Dependent Radical SAM Enzyme. Journal of the American Chemical Society, 2013, 135, 8093-8096.	6.6	110
71	Methylerythritol Phosphate Pathway of Isoprenoid Biosynthesis. Annual Review of Biochemistry, 2013, 82, 497-530.	5.0	248
72	EPR-kinetic isotope effect study of the mechanism of radical-mediated dehydrogenation of an alcohol by the radical SAM enzyme DesII. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2088-2093.	3.3	31

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73	Mechanistic studies of an unprecedented enzyme-catalysed 1,2-phosphono-migration reaction. Nature, 2013, 496, 114-118.	13.7	64
74	Evidence that the Fosfomycin-Producing Epoxidase, HppE, Is a Nonâ€“Heme-Iron Peroxidase. Science, 2013, 342, 991-995.	6.0	69
75	Enzymatic Chemistry of Cyclopropane, Epoxide, and Aziridine Biosynthesis. Chemical Reviews, 2012, 112, 1681-1709.	23.0	224
76	Construction of the Octose 8-Phosphate Intermediate in Lincomycin A Biosynthesis: Characterization of the Reactions Catalyzed by LmbR and LmbN. Journal of the American Chemical Society, 2012, 134, 17432-17435.	6.6	46
77	Radical SAM enzymes in the biosynthesis of sugar-containing natural products. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1231-1244.	1.1	39
78	Current developments and challenges in the search for a naturally selected Diels-Alderase. Current Opinion in Chemical Biology, 2012, 16, 124-131.	2.8	65
79	Stereochemical Studies of the Type II Isopentenyl Diphosphateâ€“Dimethylallyl Diphosphate Isomerase Implicate the FMN Coenzyme in Substrate Protonation. ChemBioChem, 2012, 13, 42-46.	1.3	16
80	Structural Basis of Regiospecificity of a Mononuclear Iron Enzyme in Antibiotic Fosfomycin Biosynthesis. Journal of the American Chemical Society, 2011, 133, 11262-11269.	6.6	36
81	Mechanistic Studies of the Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme DesII: EPR Characterization of a Radical Intermediate Generated During Its Catalyzed Dehydrogenation of TDP-<scp>d</scp>-Quinovose. Journal of the American Chemical Society, 2011, 133, 7292-7295.	6.6	24
82	Special Issue in Honor of Koji Nakanishi. Journal of Natural Products, 2011, 74, 303-304.	1.5	0
83	Enzyme-catalysed [4+2] cycloaddition is a key step in the biosynthesis of spinosyn A. Nature, 2011, 473, 109-112.	13.7	265
84	Linear Free Energy Relationships Demonstrate a Catalytic Role for the Flavin Mononucleotide Coenzyme of the Type II Isopentenyl Diphosphate:Dimethylallyl Diphosphate Isomerase. Journal of the American Chemical Society, 2010, 132, 9994-9996.	6.6	27
85	A Biosynthetic Pathway for BE-7585A, a 2-Thiosugar-Containing Angucycline-Type Natural Product. Journal of the American Chemical Society, 2010, 132, 7405-7417.	6.6	63
86	Stoichiometry of the Redox Neutral Deamination and Oxidative Dehydrogenation Reactions Catalyzed by the Radical SAM Enzyme DesII. Journal of the American Chemical Society, 2010, 132, 2359-2369.	6.6	55
87	Mechanistic Studies of the Biosynthesis of 2-Thiosugar: Evidence for the Formation of an Enzyme-Bound 2-Ketohexose Intermediate in BexX-Catalyzed Reaction. Journal of the American Chemical Society, 2010, 132, 15544-15546.	6.6	18
88	Characterization and Mechanistic Studies of DesII: A Radical S-Adenosyl-<scp>l</scp>-methionine Enzyme Involved in the Biosynthesis of TDP-<scp>d</scp>-Desosamine. Journal of the American Chemical Society, 2009, 131, 14030-14042.	6.6	62
89	A Secondary Kinetic Isotope Effect Study of the 1-Deoxy-d-xylulose-5-phosphate Reductoisomerase-Catalyzed Reaction: Evidence for a Retroaldol-Aldol Rearrangement. Journal of the American Chemical Society, 2009, 131, 2048-2049.	6.6	60
90	Unraveling the Mechanisms of Isoprenoid Biosynthetic Enzymes: Mechanistic Studies of the Early Stage Enzymes. Chimia, 2009, 63, 334.	0.3	6

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91	Naturalâ€Product Sugar Biosynthesis and Enzymatic Glycodiversification. Angewandte Chemie - International Edition, 2008, 47, 9814-9859.	7.2	363
92	Evidence for the Involvement of Acid/Base Chemistry in the Reaction Catalyzed by the Type II Isopentenyl Diphosphate/Dimethylallyl Diphosphate Isomerase from Staphylococcus aureus. Biochemistry, 2008, 47, 2547-2558.	1.2	31
93	¹⁸O Kinetic Isotope Effects in Non-Heme Iron Enzymes: Probing the Nature of Fe/O₂ Intermediates. Journal of the American Chemical Society, 2008, 130, 8122-8123.	6.6	51
94	Characterization of the Metal and DNA Binding Properties of an Unusual Zinc Finger from Poly(ADPâ€ribose) Polymeraseâ€1 (PARPâ€1). FASEB Journal, 2008, 22, 1057.12.	0.2	0
95	Manipulating nature's sugar biosynthetic machineries for glycodiversification of macrolides: Recent advances and future prospects. Pure and Applied Chemistry, 2007, 79, 785-799.	0.9	23
96	Elucidation of the Kijanimicin Gene Cluster:â€‰ Insights into the Biosynthesis of Spirotetronate Antibiotics and Nitrosugars. Journal of the American Chemical Society, 2007, 129, 14670-14683.	6.6	131
97	Determination of the Substrate Binding Mode to the Active Site Iron of (S)-2-Hydroxypropylphosphonic Acid Epoxidase Using 17O-Enriched Substrates and Substrate Analogues. Biochemistry, 2007, 46, 12628-12638.	1.2	28
98	The Biosynthesis of Spinosyn in Saccharopolyspora spinosa:â€‰ Synthesis of the Cross-Bridging Precursor and Identification of the Function of SpnJ. Journal of the American Chemical Society, 2007, 129, 14582-14584.	6.6	63
99	Characterization and Mechanistic Studies of Type II Isopentenyl Diphosphate:Dimethylallyl Diphosphate Isomerase from Staphylococcus aureus. Biochemistry, 2007, 46, 8401-8413.	1.2	33
100	The Diverse Roles of Flavin CoenzymesNature's Most Versatile Thespians. Journal of Organic Chemistry, 2007, 72, 6329-6342.	1.7	156
101	Characterization of TDP-4-Keto-6-deoxy-d-glucose-3,4-ketoisomerase from thed-Mycaminose Biosynthetic Pathway ofStreptomyces fradiae:Â In Vitro Activity and Substrate Specificity Studiesâ€. Biochemistry, 2007, 46, 577-590.	1.2	37
102	Unusual sugar biosynthesis and natural product glycodiversification. Nature, 2007, 446, 1008-1016.	13.7	284
103	Characterization of SpnQ from the Spinosyn Biosynthetic Pathway ofSaccharopolyspora spinosa:Â Mechanistic and Evolutionary Implications for C-3 Deoxygenation in Deoxysugar Biosynthesis. Journal of the American Chemical Society, 2006, 128, 14262-14263.	6.6	35
104	Structural insight into antibiotic fosfomycin biosynthesis by a mononuclear iron enzyme. Nature, 2005, 437, 838-844.	13.7	107
105	Biosynthesis of TDP-D-Desosamine: Identification of a Strategy for C4 Deoxygenation. Angewandte Chemie - International Edition, 2005, 44, 6742-6746.	7.2	57
106	Stereochemical Analysis of Isopentenyl Diphosphate Isomerase Type II fromStaphylococcusaureusUsing Chemically Synthesized (S)- and (R)-[2-2H]Isopentenyl Diphosphates. Organic Letters, 2005, 7, 5677-5680.	2.4	24
107	Formation of Unusual Sugars: Mechanistic Studies and Biosynthetic Applications. Annual Review of Biochemistry, 2002, 71, 701-754.	5.0	151
108	Mechanisms of enzymatic Cî—¸O bond cleavages in deoxyhexose biosynthesis. Current Opinion in Chemical Biology, 2002, 6, 590-597.	2.8	78

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109	Protein Purification and Function Assignment of the Epoxidase Catalyzing the Formation of Fosfomycin. Journal of the American Chemical Society, 2001, 123, 4619-4620.	6.6	97
110	Insights into the Branched-Chain Formation of Mycarose: Methylation Catalyzed by an (S)-Adenosylmethionine-Dependent Methyltransferase. Angewandte Chemie - International Edition, 2001, 40, 607-610.	7.2	43
111	Characterisation of a sugar epimerase enzyme involved in the biosynthesis of a vancomycin-group antibiotic. Chemical Communications, 2000, , 1565-1566.	2.2	16
112	Novel Enzymatic Mechanisms in Carbohydrate Metabolism. Chemical Reviews, 2000, 100, 4615-4662.	23.0	95
113	Learning Nature's Strategies for Making Deoxy Sugars:â€‰ Pathways, Mechanisms, and Combinatorial Applications. Accounts of Chemical Research, 1999, 32, 579-588.	7.6	85
114	Expression, Purification, and Characterization of TylB, an Aminotransferase Involved in the Biosynthesis of Mycaminose. Journal of the American Chemical Society, 1999, 121, 7166-7167.	6.6	31
115	Biosynthesis of Mycarose:Â Isolation and Characterization of Enzymes Involved in the C-2 Deoxygenation. Journal of the American Chemical Society, 1999, 121, 8124-8125.	6.6	56
116	An Efficient Synthesis of Unsymmetrical Optically Active Phosphatidyl Glycerol. Journal of Organic Chemistry, 1999, 64, 648-651.	1.7	11
117	Expression, Purification, and Characterization of TylM1, an N,N-Dimethyltransferase Involved in the Biosynthesis of Mycaminose. Journal of the American Chemical Society, 1998, 120, 9951-9952.	6.6	33
118	Mechanistic Studies of the Biosynthesis of Paratose:â€‰ Purification and Characterization of CDP-paratose Synthase. Biochemistry, 1998, 37, 4935-4945.	1.2	23
119	Biosynthesis of Desosamine:â€‰ Molecular Evidence Suggesting Î²-Glucosylation as a Self-Resistance Mechanism in Methymycin/Neomethymycin Producing Strain, Streptomyces venezuelae. Journal of the American Chemical Society, 1998, 120, 9374-9375.	6.6	29
120	Biosynthesis of Yersiniose:Â Attachment of the Two-Carbon Branched-Chain Is Catalyzed by a Thiamine Pyrophosphate-Dependent Flavoprotein. Journal of the American Chemical Society, 1998, 120, 11796-11797.	6.6	50
121	CDP-6-deoxy-6,6-difluoro-d-glucose:Â A Mechanism-Based Inhibitor for CDP-d-glucose 4,6-Dehydratase. Journal of the American Chemical Society, 1998, 120, 9698-9699.	6.6	25
122	Microbial Resistance to Mitomycins Involves a Redox Relay Mechanism. Journal of the American Chemical Society, 1997, 119, 2576-2577.	6.6	31
123	Mechanistic Studies of the Inactivation of Crotonase by (Methylenecyclopropyl)formyl-CoA. Journal of the American Chemical Society, 1996, 118, 275-276.	6.6	20
124	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
125	Studies of the Redox Properties of CDP-6-deoxy-l-threo-d-glycero-4-hexulose-3-dehydrase (E1) and CDP-6-deoxy-l-threo-d-glycero-4-hexulose-3-dehydrase reductase (E3):â€‰ Two Important Enzymes Involved in the Biosynthesis of Ascarylose. Biochemistry, 1996, 35, 7879-7889.	1.2	26
126	Biosynthesis of 3,6-Dideoxyhexoses:ÂIn VivoandinVitroEvidence for Proteinâ^'Protein Interaction between CDP-6-deoxy-l-threo-d-glycero-4-hexulose 3-Dehydrase (E1) and Its Reductase (E3)â€. Biochemistry, 1996, 35, 16412-16420.	1.2	265

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127	Mechanistic Studies of 1-Aminocyclopropane-1-carboxylate Deaminase:Â Unique Covalent Catalysis by Coenzyme B6. Journal of the American Chemical Society, 1996, 118, 8763-8764.	6.6	35
128	Mechanistic Studies of the Biosynthesis of 3,6â€Ðideoxysugars in Bacteria: Exploration of a Novel Câ€Ō Bond Cleavage Event. Journal of the Chinese Chemical Society, 1995, 42, 627-636.	0.8	3
129	Mechanistic Studies of the Biosynthesis of 3,6-Dideoxy Sugars: Stereochemical Analysis of C-3 Deoxygenation. Journal of the American Chemical Society, 1995, 117, 5158-5159.	6.6	26
130	Pathways and Mechanisms in the Biogenesis of Novel Deoxysugars by Bacteria. Annual Review of Microbiology, 1994, 48, 223-256.	2.9	270
131	Biochemistry of the Cyclopropyl Group. , 0, , 959-1025.		40
132	Dioxane Bridge Formation during the Biosynthesis of Spectinomycin Involves a Twitch Radical S-Adenosyl Methionine Dehydrogenase That May Have Evolved from an Epimerase. Journal of the American Chemical Society, 0, , .	6.6	3